



Odyssey™

Split System 5-20 Tons

Light Commercial
TTA / TTH / TWE
Series 50 Hz



005



ODYSSEY - Light Commercial Split System Cooling Units



A new standard for the air conditioning industry, Trane sets new appearance and new standard for **Serviceability... Installability... Reliability... and Flexibility** for all applications in split system air conditioning.



Design for You

Trane consulted its customers during the split system design phase to bring a product to the market place which would meet job needs every time.

Quality and Reliability

- Scroll compressors are available from 5 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 Option (TTA150-240RD)

- The key to this system is an oil equalized line connecting the two compressors. In addition, the discharge lines are simple 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 with fully refrigerant charge.

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 can easily be converted for vertical or horizontal airflow in free blow and ducted applications.

Installation

- Compact design makes smaller footprint in the market so we can save the area cost.
- Installation is simplified through fully factory packaged assembled indoor and outdoor units. Ready to run when they arrive at the jobsites.

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 shut-off valves.
- Dual circuits allow for comfort cooling even during service time. (TTA150-240)

Trane Split System Units

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

System Performance Matrix

Outdoor Unit	Indoor Unit	Evaporator cfm	Total Capacity MBH	Power Input kw
TTK060KD	TTH060BD	2,000	60	6.20
TTA075RD	TTH075BD	2,500	75	8.52
TTA100RD	TTH100BD	3,400	100	11.76
TTA120RD	TWE120AD	4,000	120	12.84
TTA150RD	TWE180BD	5,000	160	17.87
TTA200RD	TWE240BD	6,650	200	24.17
TTA240RD	TWE240BD	8,000	240	26.33

Notes : 1. Matched system ratings are ARI 360. Full load rating is at 95°F, entering condensing air temperature and 80/67 FDB/FWB entering air handler coil.
2. Indoor fan power accounts for ARI 360 required external static pressure and loss associated with air filter, casing and wet evaporator coil pressure.

Designed With Your Needs In Mind

Product Line

Indoor Units							Outdoor Units							
Model	TTH060	TTH075	TTH100	TWE120	TWE180	TWE240	Model	TTK060	TTA075	TTA100	TTA120	TTA150	TTA200	TTA240
Single Circuit	x	x	x	x			Single Compressor	x	x	x	x			
Dual Circuits					x	x	Dual Circuits					x	x	x

General Data-Air Handler Units

INDOOR UNIT MODEL		TTH060BD	TTH075BD	TTH100BD	TWE120AD	TWE180BD	TWE240BD
POWER CONS-V/ph/Hz					380-415/3/50		
INDOOR COIL-TYPE		SLIT FIN	SLIT FIN	SLIT FIN	PLATE FIN	PLATE FIN	PLATE FIN
Row/FPI		3/15	3/15	3/15	3/12	3/12	3/12
Face Area	(sq.ft.)	4.22	5.06	6.67	11.2	16.3	21.6
Tube Size	in	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant Control		CAP.TUBE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size	in	STEEL PIPE 1" MPT.	STEEL PIPE 1" MPT.	STEEL PIPE 1" MPT.	3/4 PVC PIPE-FEMALE	1 PVC PIPE-FEMALE	1 PVC PIPE-FEMALE
No. of Refrigerant Circuit		1	1	1	1	2	2
INDOOR FAN-TYPE					Centrifugal Type, Belt-Adjustable Drive		
Dia x Width	in	10x10	10x10	10x8	15x15	15x15	15x15
No. Used		1	1	2	1	2	2
Nominal	cfm	2,000	2,500	3,400	4,000	6,000	8,000
No. Motors	hp	1-3/4	1-1	1-2	1-2	1-3	1-5
Motor Speed	rpm	1,400	1,450	1,450	1,450	1,450	1,450
Volts/Ph/Hz					380-415/3/50		
F.L.Amps-L.R.	A	1.4-5.2	1.8-10.0	3.3-19.0	3.3-19.0	4.8-28.0	7.5-50.0
FILTER-TYPE					Aluminium/Washable Filter		
(No.)-Size x Thk.	mm	(2)-520x440x25	(2)-600x440x25	(3)-520x440x25	(4)-16x25x1	(8)-15x20x1	(4)-16x25x1,(4)-16x20x1
Ref. Line Connection		Braze	Braze	Braze	Braze	Braze	Braze
Suction Line Size (each)	in	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
Liquid Line Size (each)	in	3/8	1/2	1/2	1/2	1/2	1/2
DIMENSIONS (HxWxD)							
Crated	mm	673x1,410x970	673x1,410x970	673x1,778x970	1,651x1,702x724	1,867x2,108x794	1,943x2,413x858
Uncrated	mm	520x1,312x841	520x1,312x841	521x1,680x841	1,523x1,613x635	1,751x2,019x702	1,824x2,350x773
Net Weight	kg	86.7	91.3	135.4	190	313	372

General Data - Condensing Units

		TTK060KD	TTA075RD	TTA100RD	TTA120RD	TTA150RD	TTA200RD	TTA240RD
Electrical Data								
Main Power supply	V/ph/Hz				380-415/3/50			
Min.Brch.Cir.Ampacity	A	13.4	22.45	25.82	26.87	40.8	46.84	48.84
Compressor								
Number		1	1	1	1	2	2	2
Type					Hermetic Scroll			
Rated Amps (each)	A	10.0	16.4	19.2	19.6	16.4	19.2	19.6
Locked rotor Amps (each)	A	74	95	125	125	95	125	125
Motor RPM	rpm	2,900	2,900	2,900	2,900	2,900	2,900	2,900
System Data								
Refrigerant circuit		1	1	1	1	2	2	2
Suction line	in	1 1/8	1 1/8	1 3/8	1 3/8	1 1/8	1 3/8	1 3/8
Liquid line	in	3/8	1/2	1/2	1/2	1/2	1/2	1/2
Outdoor Coil								
Type		Louver fin	Slit fin	Slit fin	Slit fin	Slit fin	Slit fin	Slit fin
Tube size	in	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Face Area	(sq.ft.)	11.7	15.1	20.0	25.0	30.2	40.0	42.5
Rows	#	2	2	2	2	2	2	2
Fins per inch (fpi)	#	21(252)	16(192)	16(192)	16(192)	16(192)	16(192)	16(192)
Outdoor Fan								
Type					Propeller			
Number		2	1	1	1	2	2	2
Diameter	ft	18	28	28	28	28	28	28
Drive type					Direct			
Air flow	cfm	2,700	4,900	5,800	6,800	9,800	11,600	13,600
Motor Number		2	1	1	1	2	2	2
Motor HP (each)	hp	1/15	3/4	3/4	3/4	3/4	3/4	3/4
Rated Amps (each)	A	0.45	1.95	1.82	2.37	1.95	1.82	2.37
Locked rotor Amps (each)	A	0.95	2.33	3.07	7.46	2.33	3.07	7.46
Motor RPM	rpm	930	700	800	950	700	800	950
R-22 Refrigerant Charge					Fully Refrigerant Charge			
DIMENSIONS (HxWxD)								
Crated	mm	1,371x1,131x450	1,190x1,194x1,042	1,190x1,194x1,042	1,190x1,397x1,143	1,190x2,312x1,118	1,190x2,312x1,118	1,190x2,312x1,118
Uncrated	mm	1,254x988x350	1,050x1,060x950	1,050x1,060x950	1,050x1,260x1,050	1,050x2,200x1,050	1,050x2,200x1,050	1,050x2,200x1,050
Net Weight	kg	94	157	177	221	368	408	424



TTK060KD



TTA075-120RD



TTA150-240RD



TTH060-100BD



TWE120-240BD

Feature and Benefits

TTA Condensing Units

Features

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

Optional

- Copper fin / Blue fin.
- Manifolding single circuit (for TTA150-240RD).

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 service valves, hi-low pressure controls, liquid line filter drier and fully refrigerant charge included.
- Optimized operation and reduced service time.
- Designed to provide corrosion protection on sea coast application.
- More efficiency at part load.

TTH/TWE Air Handler Units

Features

- 500 mm in height (TTH060-100).
- Excellent drain pan.
- Belt drive.
- Factory installed mounting channel (TTH060-100).
- Quiet operation.
- Convertible for horizontal or vertical configuration (TWE120-240).
- Thermal expansion valve.

Optional

- Discharge Plenum.
- Return air grille (for TWE model only).
- High static motor.

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 wide forward curved fans provide quiet operation.
- 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.



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Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.