



# 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 Efficiency

- 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	520x1,406x916		520x1,774x916		620x1,774x916		798x2,059x1,260	
Weight		kg	87	92	136	141	180	189	214	240
Refrigerant Pipe Size (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	17.9	17.9	21.4	27.6	18.6 x 2	20.0 x 2	25.0 x 2
Fan Motor	RLA x Qty	A	0.88 x 2		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 does not include the dimensions of unit's legs.  
 5. Design and specification are subject to change without notice.



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