



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.



UNIT MODELS	INDOOR	TTH060JD	TTH075JD	TTH100JD	TTH120JD	TTH160JD	TTH180JD	TTH210JD	TTH240JD
Performance Data									
Normal Cooling Capacity	Btu/h	60,000	75,000	100,000	120,000	150,000	180,000	200,000	240,000
Normal Airflow	CFM	2,000	2,500	3,400	4,000	5,300	6,000	7,000	8,000
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	380-415/3/50
SYSTEM DATA									
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
No. Refrigerant Circuits		1	1	1	1	1	2	2	2
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE
Suction Line OD	in (mm)	1 1/8 (28.57)	1 1/8 (28.57)	1 1/8 (28.57)	1 3/8 (34.93)	1 5/8 (41.3)	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)	5/8 (15.9)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
FAN									
Fan Type		DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL							
No. used		1	1	2	2	2	2	2	2
MOTOR									
Motor Type		TOTALLY ENCLOSED-FAN COOLED THREE PHASE INDUCTION MOTOR							
No. of Motor		1	1	1	1	1	1	1	1
Motor hp	hp (kW)	3/4 (0.55)	1 (0.75)	2 (1.5)	2 (1.5)	2 (1.5)	3 (2.2)	3 (2.2)	5.5 (4)
RLA/LRA		1.61-8.40	1.99 - 11.0	3.66 - 21.0	3.66 - 21.0	3.48 - 23.32	4.9 - 35.77	4.9 - 35.77	8.56 - 64.2
FILTER									
Type		WASHABLE ALUMINUM AIR FILTER							
DIMENSION (HxWxD)									
Uncrated (Net)	mm	520 x 1,312 x 841	520 x 1,312 x 841	520 x 1,680 x 841	620 x 1,680 x 841	798 x 2059 x 1260	798 x 2059 x 1260	849 x 2366x 1319	849 x 2366x 1319
WEIGHT									
Uncrated (Net)	kg	86.7	91.3	135.4	140.4	172.0	181.0	210.0	239.0

UNIT MODELS	OUTDOOR	TTKB60KD	TTA075JD	TTA100JD	TTA120JD	TTA150JD	TTA180JD	TTA200JD	TTA240JD
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	380-415/3/50
SYSTEM DATA									
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Connection Type		SWEAT	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE
Refrigerant Charge	lb (kg)	6.17 (2.80)	Holding Charge						
No. Refrigerant Circuits		1	1	1	1	1	2	2	2
Suction Line OD	in (mm)	1 1/8 (28.58)	1 1/8 (28.6)	1 1/8 (28.6)	1 3/8 (34.9)	1 5/8 (41.3)	1 1/8 (28.6)	1 1/8 (28.6)	1 3/8 (34.9)
Liquid line OD	in (mm)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
COMPRESSOR									
Compressor Type		Hermetic Scroll							
No. Used		1	1	1	1	1	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	380/3/50
RLA/LRA		12.5/75.0	17.9 / 125	17.9 / 125	21.4/147	27.6 / 197	18.6 / 125	17.9 / 125	21.4 / 147
FAN									
Fan Type		Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
No. used		2	1	1	1	1	2	2	2
Drive Type		Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
MOTOR									
Motor Type		Permanent Split Capacitor	Three Phase Induction Motor						
No. of Motor		1	1	1	1	1	2	2	2
RLA/LRA		0.65/1.35	1.50 / 4.8	1.50 / 4.8	1.50 / 4.8	1.50 / 4.8	1.50 / 4.8	1.50 / 4.8	1.50 / 4.8
DIMENSION (HxWxD)									
Uncrated (Net)	mm	795 x 1018 x 360	1070 x 952 x 1042	1070 x 952 x 1042	1070 x 952 x 1042	1270 x 952 x 1242	1050 x 2200 x 1050	1050 x 2200 x 1050	1050 x 2200 x 1050
WEIGHT									
Uncrated (Net)	kg	86.2	164	180	192	245	415	428	462

Note: 1. Capacity is rate at ARI conditions of 80°FDB / 67°FWB Indoor & 95°FDB Outdoor.
 2. Outdoor unit dimensions depth is not include the dimensions of units legs.
 3. Product design and specification are subject to change without prior notice.

