Carrier



COOLING ONLY
INVERTER DUCTED SPLIT SYSTEM

AHRI CERTIFIED

R410A









Features

- *R410Achlorine-free refrigerant.*
- *DC Inverter Rotary Compressor.*
- *Internal protection against high temperature motor overload conditions.*
- *High quality condenser with inner-groove copper tube and aluminum fin.*
- *Service valves with sweat connections and easy-access guage ports.*
- *AHRI certified and ETL listed.*

Features

- *Uniquesoundcontrol top design.*
- *Compact design, easy installation and transportation.*
- *Powder-coated galvanized steel cabinet. Wind load compliant per Florida Building Code - 2010.*
- *Wire fan discharge grille.*
- *Louver coil guard.*
- *Standard 24 VAC controls*

Features

- *Greater economy.*
- *Greater comfort.*
- *Greater convenience.*
- *Greater durability.*

GREATER COMFORT

2-Stageblower SpeedControl air handler unit to better match capacity.

Rapid heating control to prevent cold air from blowing into the room as the initial stage of heating.

Dehumidification mode to adapt to high humidity environments.

GREATER ECONOMY

Multi-speed constant torqueECM motor.

Higher heat transfer e ciency and low static pressure drop “A” shaped coil.

Foil faced insulation to prevent energy loss through the cabinet.

Factory-sealed cabinet certified to achieve 2% or less air leakage rate at 1.0 inch water column.

GREATER CONVENIENT

Factory-installednon-adjustableTXV to simplify installation.

4-position installation: up-flow, horizontal Right and down-flow, Horizontal Left (field convertible discharge).

Field-installation electric heater kits 5, 7.5, 10, 15, 20 kW available as an accessory.

Copper sweat connections.

GREATER SAFETY

All-aluminumheatexchanger to confirm long-life operation.

TXV with built-in filter to avoid clogging and leakage.

Composite drain pan with UVC inhibitor to improve life span.

Fully-insulated cabinet design.

Specifications
AHU



Indoor Unit Model		-	FKVA836310	FKVA860310
Matched Outdoor Unit Model		-	38KVA836310	38KVA860310
Electrical	Power Supply	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Voltage operating range	Volts	187V min. / 253V max.	187V min. / 253V max.
	Minimum Circuit Ampacity	A	3.8	5.7
	Max. Overcurrent Protection	A	15	15
Performance	Cooling Capacity	Btu/h	33,800	55,000
	SEER2	Btu/h*W	17.5	17
	EER2	Btu/h*W	10.2	10.2
Indoor Fan	Material	-	Metal	Metal
	Type	-	Centrifugal	Centrifugal
Indoor Motor	Type	-	ECM	ECM
	Motor HP	HP	1/2	3/4
Indoor coil	Tube material	-	Aluminium	Aluminium
	Fin type	-	Hydrophilic Aluminium	Hydrophilic Aluminium
Rated Indoor Air Flow		CFM	1220	1720
Max. ESP		in.wg	0.23	0.28
Indoor Sound Level (Sound Power Level)		dB(A)	54/49/46	56/54/51
Dimension & Weight	Unit Dimension (W×H×D)	mm	500×1180×550	560×1385×610
		inch	19-5/8×46-1/2×21-5/8	22-1/16×54-1/2×24
	Packing Dimension (W×H×D)	mm	567×1197×644	627×1402×704
		inch	22-5/16× 47-1/8× 25-3/8	24-11/16× 55-3/16× 27-11/16
	Net/Gross weight	kg	56/63	77/85
		lb	124/139	170/187
Refrigerant System	Refrigrant Type	-	R410A	R410A
	Throttle Type	-	TXV	TXV
	Connecting Method	-	Thread	Thread
	Liquid Pipe	inch	3/8	3/8
	Suction Pipe	inch	3/4	7/8
Drainage water pipe diameter		inch	3/4 FPT	3/4 FPT

Notes:
1. See outdoor unit specifications for system capacities
2. Unit are shipped without filters.

Specifications

16 SEER 2 To 5 Ton

ODU



Nominal Capacity			36k	60k
Outdoor unit model			38KVA636310	38KVA660310
AHRI Reference Number			217481961	217481963
System Performance ***(See Note 1)***	Rated Cooling capacity	BTUH	34200	56000
	Rated Indoor Airflow	CFM	1180	1720
	EER2	Btuh / W	10.4	10.0
	SEER2	Btuh / W	16.1	15.5
El e ctri ca l	Power supply	Vo l t-Ph -H z	208/230-1-60	
	Voltage Range Min / Max	Vo l ts	187 Min. / 253 Max	
	Minimum Circuit Ampacity	Amps	26.7	39.2
	Max. Overcurrent Protection	Amps	4	60
	Max Fuse Size	Amps	5	60
Sound power	Max @ 100% load	d B(A)	4	79
Compressor	Brand / Type	-	5 GMCC / Variable speed Rotary	
	Model	-	ATM24 7D57UFT	ATF400D64UMV
Outdoor fan	Type	-	7 Axial flow / Metal	
	Outdoor airflow	CFM	3210	3940
Outdoor fan Motor	Type	-	DC	
	HP	-	1/3	1/3
Outdoor coil	Material	Tube / Fin	Copper / Hydrophilic aluminium	
	Tube diameter-in.	inches (mm)	9/32" (7mm)	
	No.of rows	-	2	
	Fins per inch	-	17	19
Refrigerant System	Refrigerant Type		R410A	
	Refrigerant charge	lb-oz	6 lbs 11oz	9 lbs 8oz
	Liquid Line Size (OD)	inches	3/8	
	Suction Line Size (OD)	inches	3/4	7/8
	Liquid Valve Connection Size (OD)	inches	3/8	
	Suction Valve Connection Size (OD)	inches	3/4	7/8
	Maximum Line Length	FT	100	
	Maximum Elevation Difference	FT	50	
Diimension & Weights	Unit Dimensions (WDH)	inches	27-61/64x27-61/64x24-59/64	29-9/64x29-9/64x33-3/16
	Packing Dimensions (WDH)	inches	29-1/16x29-1/16x26-17/64	30-15/64x30-15/64x34-17/32
	Net/Gross weight	lbs.	134/142	187/196
	Qty per conatiner	-	180	134
Design Data	Design Pressure	psig	550/250	
	Cooling temp	°C	12.8~48.8	
		°F	40~120	

Notes:

1. As per AHRI published ratings with matching indoor unit.

Specifications

18 SEER 2 To 5 Ton

ODU



Outdoor Unit Model		-	38KVA836310	38KVA860310
Electrical	Power supply	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Voltage operating range	Volts	187V min. / 253V max.	187V min. / 253V max.
	Minimum Circuit Ampacity	A	25	39
	Max. Overcurrent Protection	A	40	60
	Max Fuse Size	A	40	60
Nominal Capacity		Tons	3	5
Sound pressure level		dB(A)	64	67
Compressor	Type		Rotary	Rotary
	Brand		Mitsubishi	Mitsubishi
Outdoor fan	Type		Axial Flow	Axial Flow
	Material		Metal	Metal
Outdoor motor	Type		PSC	ECM
	Motor HP		1/6	1/3
Outdoor coil	Tube Material		Innner Groove, Copper	Innner Groove, Copper
	Fin Type		Hydrophilic aluminium	Hydrophilic aluminium
Dimension & Weight	Unit Dimension (W×H×D)	mm	740×633×740	740×843×740
		inch	29.1×24.9×29.1	29.1×33.2×29.1
	Packing Dimension (W×H×D)	mm	768×667×768	768×877×768
		inch	30.25×26.25×30.25	30.25×34.5×30.25
	Net/Gross weight	kg	68/72	85/89
		lb	150/159	187/196
Refrigerant System	Refrigerant Type		R410A	R410A
	Factory charge	g	3320	4720
		lb-oz.	7 lb- 9 oz	10lb - 10 oz
Refrigerant piping	Max. Line Length	Ft.	100	100
	Max. Vertical Separation	Ft.	50	50
	Liquid Pipe Connection	inch	3/8	3/8
	Suction Pipe Connection	inch	3/4	7/8
Design Information	Design Pressure	psig	550/250	550/250
	Cooling Ambient Temp range	℃	12.8~48.8	12.8~48.8
		℉	55~120	55~120

Notes:

1. As per AHRI published ratings with matching indoor unit.

Specifications

Fan Coil Unit



Indoor Unit Model			40EIQ36-M	40EIQ60-M
Matched Outdoor Unit Model			38KVA836310	38KVA860310
Electrical	Power supply	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Voltage operating range	Volts	187V min. / 253V max.	187V min. / 253V max.
Performance	Cooling Capacity	Btu/h	34600	50500
	EER	Btu/h*W	9.9	10.4
	SEER	Btu/h*W	15.5	15.5
Indoor Motor	Type	-	PSC	PSC
	Power Input	W	438/389/328	434/412/340
Indoor Fan	Material	-	Plastic	Plastic
	Type	-	Centrifugal fan	Centrifugal fan
Indoor coil	Tube material	-	Copper	Copper
	Fin type	-	Hydrophilic Aluminium	Hydrophilic Aluminium
Airflow (H/M/L)		CFM	1200/1100/1000	1350/1300/1100
ESP (range)		in.w.g	0.15(0-0.50)	0.20(0-0.50)
Indoor Sound Level (Sound Power Level)		dB(A)	49/47/46	47/44/40
Dimension & Weight	Unpacking(W×H×D)	mm	1230×270×775	1290×300×865
		inch	48-7/16×10-5/8×30-1/2	50-13/16×11-13/16×34-
	Packing (W×H×D)	mm	1355×350×795	1400×375×925
		inch	53-3/8×13-3/4×31-5/16	55-1/8×14-3/4×36-7/16
	Net/Gross weight	kg	41/48	49/57
		lb	90/106	108/126
Refrigerant System	Liquid Line Size	inch	3/8	3/8
	Vapor Line Size	inch	5/8	3/4
	Throttle Type	-	TXV(field supply)	TXV(field supply)
	Refrigrant Type	-	R410A	R410A
	Connecting Method	-	Thread	Thread
Drainage water pipe diameter		inch	1 FPT	1 FPT

Notes:
-The TXV is not include from factory, need to be bought from factory or offered locally
-As per AHRI published ratings with matching indoor unit.

Specifications

Cassette Unit



Indoor Unit Model			40KIQ36-M	40KIQ60-M
Indoor Unit Panel			40CAS-M	40CAS-M
Matched Outdoor Unit Model			38KVA836310	38KVA860310
Electrical	Power Supply	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Voltage operating range	Volts	187V min. / 253V max.	187V min. / 253V max.
Performance	Cooling Capacity	Btu/h	32000	54500
	SEER	Btu/h*W	15	16
	EER	Btu/h*W	10.51	8.39
Indoor Motor	Type	-	PSC	PSC
	Power Input	HP	1/12	1/12
Indoor Fan	Material	-	Plastic	Plastic
	Type	-	Centrifugal fan	Centrifugal fan
Indoor coil	Tube material	-	Copper	Copper
	Fin type	-	Hydrophilic Aluminium	Hydrophilic Aluminium
Airflow (H/M/L)		CFM	850/650/550	900/700/600
Indoor Sound Level (Sound Power Level)		dB(A)	48/42/41	49/43/42
Dimension & Weight	Unpacking(W×H×D)	mm	840×300×840	840×300×840
		inch	33-1/16 × 11-13/16 × 33-1/16	33-1/16 × 11-13/16 × 33-1/16
	Packing (W×H×D)	mm	955×317×955	955×317×955
		inch	37-5/8× 12-1/2 × 37-5/8	37-5/8× 12-1/2 × 37-5/8
	Net/Gross weight	kg	28.1/32.7	29.8/35
		lb	62/72	65.7/77.1
Refrigerant System	Liquid Line Size	inch	3/8	3/8
	Vapor Line Size	inch	3/4	3/4
	Throttle Type	-	TXV(field supply)	TXV(field supply)
	Refrigrant Type	-	R410A	R410A
	Connecting Method	-	Thread	Thread
Drainage water pipe diameter		inch	1-1/4 FPT	1-1/4 FPT

Notes:

-The TXV is not include from factory, need to be bought from factory or offered locally

-As per AHRI published ratings with matching indoor unit.

Specifications

Floow Ceiling Unit



Indoor Unit Model			40VIQ36-M	40VIQ60-M
Matched Outdoor Unit Model			38KVA836310	38KVA860310
Electrical	Power supply	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Voltage operating range	Volts	187V min. / 253V max.	187V min. / 253V max.
Performance	Cooling Capacity	Btu/h	36500	55000
	SEER	Btu/h*W	15	16
	EER	Btu/h*W	10.2	9
Indoor Motor	Type	-	DC	DC
	Power Input	HP	1/12	1/12
Indoor Fan	Material	-	Plastic	Plastic
	Type	-	Centrifugal fan	Centrifugal fan
Indoor coil	Tube material	-	Copper	Copper
	Fin type	-	Hydrophilic Aluminium	Hydrophilic Aluminium
Airflow		CFM	583/647/712/777/842/907/971	777/844/910/977/1044/1111/1177
Indoor Sound Level (Sound Power Level)		dB(A)	32.1/33.8/36.3/38.8/41.5/42.4/44	39.8/42.6/44.5/46.6/48.3/50.1/52
Dimension & Weight	Unpacking(W×H×D)	mm	1650 ×235×675	1650 ×235×675
		inch	65 × 9-1/4 × 26-9/16	65 × 9-1/4 × 26-9/16
	Packing (W×H×D)	mm	1775×330×760	1775×330×760
		inch	69-7/8× 13×30	69-7/8× 13×30
	Net/Gross weight	kg	36.4/42.2	36.4/42.2
		lb	80.3/93.1	80.3/93.1
Refrigerant System	Liquid Line Size	inch	3/8	3/8
	Vapor Line Size	inch	5/8	5/8
	Throttle Type	-	EEV	EEV
	Refrigrant Type	-	R410A	R410A
	Connecting Method	-	Thread	Thread
Drainage water pipe diameter		inch	1 FPT	1 FPT

Notes:

1. As per AHRI published ratings with matching indoor unit.

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