



COOLING ONLY INVERTER DUCTED SPLIT SYSTEM

*Vertical Discharge Outdoor
Unit and Multi-position
Air handler 2 to 5 Ton*





Features

- R410A chlorine-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 gauge ports.
- AHRI certified and ETL listed.

Features

- Unique sound control 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-Stage blower Speed Control 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 torque ECM motor.

Higher heat transfer efficiency 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-installed non-adjustable TXV 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-aluminum heat exchanger 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

Nominal Capacity <i>(See Note 1)</i>			24K	36k	48k	60k
Indoor unit model			FKVA824310	FKVA836310	FKVA848310	FKVA860310
Electrical	Power supply	Volt-Ph-Hz	208/230-1-60			
	Voltage Range Min. / Max.	Volts	187 Min. / 253 Max			
	Minimum Circuit Ampacity	Amps	3.3	3.8	5.7	5.7
	Max. Overcurrent Protection	Amps	15			
Indoor Fan	External Static Pressure	in. W.C.	0.8			
	Material	-	Metal			
	Type	-	Centrifugal			
Indoor Motor	Type	-	ECM			
	Motor HP	HP	1/3	1/2	3/4	3/4
	Motor FLA	Amps	2.6	3.0	4.5	4.5
Indoor coil	Tube material	-	Aluminium			
	Fin type	-	Hydrophilic Aluminium			
Sound power	Decibels	dB(A)	63/59/55	65/62/58	67/63/59	68/64/60
Air filter sizes	Filter Dimensions <i>(See note 2)</i>	inches	18" x 20"		20" x 22"	
Diimension & Weights	Unit dimensions (WxHxD)	inches	19-5/8 x 46-1/2 x 21-5/8		22 x 54-1/2 x 24	
	Packing Dimensions (WxHxD)	inches	22-5/16 x 52-9/16 x 25-3/8		24-11/16 x 60-5/8 x 27-11/16	
	Net / Gross weight	lbs.	119 /147	124 / 152	154 / 187	161 / 194
	Qty per container	-	144	144	103	103
Refrigerant System	Refrigerant Type	-	R410A			
	Expansion Device	-	TXV			
	Liquid line size	inches	3/8"			
	Suction line size	inches	3/4"		7/8"	
Condensate Pipe Connection Diameter		inches	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

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
Electrical	Power supply	Volt-Ph-Hz	208/230-1-60	
	Voltage Range Min / Max	Volts	187 Min. / 253 Max	
	Minimum Circuit Ampacity	Amps	26.7	39.2
	Max. Overcurrent Protection	Amps	45	60
	Max Fuse Size	Amps	45	60
Sound power	Max @ 100% load	dB(A)	77	79
Compressor	Brand / Type	-	GMCC / Variable speed Rotary	
	Model	-	ATM240D57UFT	ATF400D64UMV
Outdoor fan	Type	-	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 (WxDxH)	inches	27-61/64x27-61/64x24-59/64	29-9/64x29-9/64x33-3/16
	Packing Dimensions (WxDxH)	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

Nominal Capacity <i>(See Note 1)</i>			24K	36k	48k	60k
Outdoor unit model			38KVA824310	38KVA836310	38KVA848310	38KVA860310
AHRI Reference Number			217481965	217481967	217481969	217481971
System Performance <i>(See Note 1)</i>	Rated Cooling capacity	BTUH	24000	33800	45000	55000
	Rated Indoor Airflow	CFM	700	1220	1580	1720
	EER2	Btuh / W	11.7	10.2	11.7	10.2
	SEER2	Btuh / W	17.5	17.5	17.5	17.0
Electrical	Power supply	Volt-Ph-Hz	208/230-1-60			
	Voltage Range Min / Max	Volts	187 Min. / 253 Max			
	Minimum Circuit Ampacity	Amps	25		39	
	Max. Overcurrent Protection	Amps	40		60	
	Max Fuse Size	Amps	40		60	
Sound power	Max @ 100% load	dB(A)	64		67	
Compressor	Brand / Type	-	Mitsubishi / Variable Speed Rotary			
	Model	-	TNB220FLHMC-L	TNB220FLHMC-L	MNB42FCKMC-L	MNB42FCKMC-L
Outdoor fan	Type	-	Axial flow / Metal			
	Outdoor airflow	CFM	3100		4100	
Outdoor fan Motor	Type	-	PSC		ECM	
	HP	-	1/6		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		19.5	
Refrigerant System	Refrigerant Type		R410A			
	Refrigerant charge	lb-oz	7 lb - 9 oz		10 lb - 10 oz	
	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 (WxDxH)	inches	29-1/8x24-15/16x29-1/8		29-1/8x33-3/16x29-1/8	
	Packing Dimensions (WxDxH)	inches	30-1/4x26-1/4x30-1/4		30-1/4x34-1/2x30-1/4	
	Net/Gross weight	lbs.	150/159		187/196	
	Qty per conatiner	-	180	180	135	135
Design Data	Design Pressure	psig	550/250			
	Cooling temp	°C	12.8~48.8			
		°F	40~120			

Notes:

- As per AHRI published ratings with matching indoor unit.



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