

SUBMITTAL QSFMI-09A/12A/18A Evaporator

www.Quietside.com

Wall mounted evaporator, for Quietside multi-zone split systems

Job Name	Location
Purchaser	Engineer
Submitted to	Reference
Unit Designation	Schedule #

- Electro-static, washable, main filter as standard

- Outdoor unit shall power indoor units

Construction

- The indoor shall have a UL94 V0 chassis with galvanized steel mounting bracket

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

Controls

- The unit shall be operated via communication through high voltage

- 14AWG X 4 interconnect wire between condenser and evaporator

- Evaporator ships with wireless controller as standard

Refrigerant System

- The refrigerant shall be R410A

- Refrigerant flow shall be controlled by EEV (electronic expansion valve) at outdoor unit

Indoor Fan

- Indoor fan is a single, crossflow type

- Four speed settings and auto setting

Compatibility

- Compatible with Quietside Condenser model numbers:

- QSFMO-D2, QSFMO-T3, QSFMO-Q4 only



QSFMI-09A **QSFMI-12A** **QSFMI-18A**
 System Quantity System Quantity: System Quantity:

Performance*	Nominal Capacity* (COOL/HEAT)		9,000/10,000	12,000/13,000	18000/19,000
	Condensate (pints/hour)		1.7	2.7	3.8
Power	Voltage (øV/Hz)		1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
Dimensions	W X H X D (Inches)		33 1/4 X 10 7/8 X 7	33 1/4 X 10 7/8 X 7	37 X 11 3/4 X 7 7/8
	Weight (lbs.)		22	22	29
	Condensate Connection		11/16" OD	11/16" OD	11/16" OD
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube
		FPI	18	18	18
		Pipe Diameter	7mm	7mm	7mm
Sound Pressure Level (dB)	dB	High/Medium/Low	42/38/35/32	44/39/36/33	49/44/40/35
Pipe Connections	Indoor	High side	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	1/2"
Evaporator Fan	Type		Cross Flow Type (1)	Cross Flow Type (1)	Cross Flow Type (1)
	RLA	Amps	0.2	0.2	0.3
	Fan Speed	RPM	218/253/277/306	218/253/277/335	324/383/459/500

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*Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

*Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

SUBMITTAL QSFMO-D2 Condenser

For wall mounted, 2-zone, split system

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		

QSFMO-D2 Condenser Specifications

System Performance*	Nominal Capacity*		24,000
	SEER		16
	HSPF		8.2
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current (amps)	Cooling	10.5
		Heating	10.5
	Max Breaker	Amps	20A
Min. Circuit Ampacity		13A	
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 81
Pipe Connections	High side	X 2	1/4"
	Low side	X 2	3/8"
	Maximum Line Set Length		80 feet
	Maximum Vertical Separation		16 feet
	Oil Trap		Every 20' of vertical separation
MAX INDIVIDUAL LINE SET LENGTH		33 feet	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	Output	W	60
	RLA	Amps	0.5
Compressor	Manufacturer		MITSUBISHI
	Type		Inverter Rotary
	RLA	Amps	8
	L.R.A.	Amps	27
Heat Exchanger	Type		Aluminum Fin - Copper Tube
	FPI		18
	Pipe Diameter		3/8 inch
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge (oz.)		50
	Charged for (feet)		50
Additional Refrigerant		0.2 oz./ft. over 50 feet	
Sound Pressure Level		dB	56
Dimensions	W X H X D	Inches	35 3/8 X 23 1/2 X 14 7/8
	Weight	lbs.	95
Accessories	Condensate pump		ASP-MO-230
	Wall Bracket		CKN-250
	Line Sets - 25' and 50'		Insulated and flared, interconnect cable included
Safety Certifications		ETL & ETLc	
TWO UNITS COMBINATION			
2 X QSFMI-09A			
1 X QSFMI-09A + 1 X QSFMI-12A			
1 X QSFMI-12A + 1 X QSFMI-12A			
ONE UNIT			
1 X QSFMI-09A		1 X QSFMI-12A	



- Low ambient control built in
 - Outdoor unit shall supply power to the indoor units
- Construction**
- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability
- Heat Exchanger**
- The heat exchanger shall be mechanically bonded fin to copper tube
- Controls**
- The unit shall be operated via communication through high voltage
 - 14AWG X 4 interconnect wire between condenser and evaporator
- Refrigerant System**
- The refrigerant shall be R410A
 - The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary
 - Refrigerant flow shall be controlled by 2 separate electronic expansion valves at outdoor unit
- Compatibility**
- Will only operate with Quietside evaporator model numbers: QSFMI-09A, QSFMI-12A

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 *Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.
 *Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.
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SUBMITTAL QSFMO-Q4 Condenser

For wall mounted, 4-zone, split system

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		

QSFMO-Q4 Condenser Specifications

System Performance*	Nominal Capacity*		36,000
	SEER		16
	HSPF		8.2
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current (amps)	Cooling	20.7
		Heating	20.7
	Max Breaker	Amps	45A
Min. Circuit Ampacity		26A	
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 81
Pipe Connections	High side	X 4	1/4"
	Low side	X 4	3/8"
	Maximum Line Set Length		230 feet
	Maximum Vertical Separation		33 feet
	Oil Trap		Every 20' of vertical separation
MAX INDIVIDUAL LINE SET LENGTH		65 feet	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	Output	W	60
	RLA	Amps	0.6
Compressor	Manufacturer		MITSUBISHI
	Type		Inverter Rotary
	RLA	Amps	10
	L.R.A.	Amps	45
Heat Exchanger	Type		Aluminum Fin - Copper Tube
	FPI		18
	Pipe Diameter		3/8 inch
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge (oz.)		77
	Charged for (feet)		131
	Additional Refrigerant		0.2 oz./ft. over 131 feet
Sound Pressure Level		dB	56
Dimensions	W X H X D	Inches	37 1/4 X 27 1/2 X 15 5/8
	Weight	lbs.	135
Accessories	Condensate pump		ASP-MO-230
	Wall Bracket		CKN-250
	Line Sets - 25' and 50'		Insulated and flared, interconnect cable included
Safety Certifications		ETL & ETLc	
TWO UNITS COMBINATION			
2 X QSFMI-09A		1 X QSFMI-09A + 1 X QSFMI-12A	
1 X QSFMI-09A + 1 X QSFMI-18A		1 X QSFMI-12A + 1 X QSFMI-12A	
1 X QSFMI-12A + 1 X QSFMI-18A		1 X QSFMI-18A + 1 X QSFMI-18A	
TWO UNITS COMBINATION			
3 X QSFMI-09A		1 X QSFMI-09A + 2 X QSFMI-12A	
2 X QSFMI-09A+1 X QSFMI-12A		2 X QSFMI-09A + 1 X QSFMI 18A	
3 X QSFMI-12A			



- Low ambient control built in
- Outdoor unit shall supply power to the indoor units

Construction

- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

Controls

- The unit shall be operated via communication through high voltage
- 14AWG X 4 interconnect wire between condenser and evaporator

Refrigerant System

- The refrigerant shall be R410A
- The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary

- Refrigerant flow shall be controlled by 4 separate electronic expansion valves at outdoor unit

Compatibility

- Will only operate with Quietside evaporator model numbers: QSFMI-09A, QSFMI-12A, and QSFMI-18A

THREE UNIT COMBINATION
4 X QSFMI-09A

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 *Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.
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SUBMITTAL QSFMO-T3 Condenser

For wall mounted, 3-zone, split system

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		

QSFMO-T3 Condenser Specifications

System Performance*	Nominal Capacity*		36,000
	SEER		16
	HSPF		8.2
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current (amps)	Cooling	15.7
		Heating	15.7
	Max Breaker	Amps	30A
Min. Circuit Ampacity		20A	
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 81
Pipe Connections	High side	X 3	1/4"
	Low side	X 3	3/8"
	Maximum Line Set Length		200 feet
	Maximum Vertical Separation		33 feet
	Oil Trap		Every 20' of vertical separation
	MAX INDIVIDUAL LINE SET LENGTH		65 feet
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	Output	W	60
	RLA	Amps	0.6
Compressor	Manufacturer		MITSUBISHI
	Type		Inverter Rotary
	RLA	Amps	10
	L.R.A.	Amps	45
Heat Exchanger	Type		Aluminum Fin - Copper Tube
	FPI		18
	Pipe Diameter		3/8 inch
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge (oz.)		77
	Charged for (feet)		75
	Additional Refrigerant		0.2 oz./ft. over 77 feet
Sound Pressure Level		dB	56
Dimensions	W X H X D	Inches	37 1/4 X 27 1/2 X 15 5/8
	Weight	lbs.	135
Accessories	Condensate pump		ASP-MO-230
	Wall Bracket		CKN-250
	Line Sets - 25' and 50'		Insulated and flared, interconnect cable included
Safety Certifications		ETL & ETLc	
TWO UNITS COMBINATION			
2 X QSFMI-09A		1 X QSFMI-09A + 1 X QSFMI-12A	
1 X QSFMI-09A + 1 X QSFMI-18A		1 X QSFMI-12A + 1 X QSFMI-12A	
1 X QSFMI-12A + 1 X QSFMI-18A		1 X QSFMI-18A + 1 X QSFMI-18A	
TWO UNITS COMBINATION			
3 X QSFMI-09A		1 X QSFMI-09A + 2 X QSFMI-12A	
2 X QSFMI-09A+1 X QSFMI-12A		2 X QSFMI-09A + 1 X QSFMI 18A	
3 X QSFMI-12A			



- Low ambient control built in

- Outdoor unit shall supply power to the indoor units

Construction

- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

Controls

- The unit shall be operated via communication through high voltage

- 14AWG X 4 interconnect wire between condenser and evaporator

Refrigerant System

- The refrigerant shall be R410A

- The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary

- Refrigerant flow shall be controlled by 3 separate electronic expansion valves at outdoor unit

Compatibility

- Will only operate with Quietside evaporator model numbers: QSFMI-09A, QSFMI-12A, and QSFMI-18A

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*Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

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