RESURGAM CITY OF PORTLAND, MAINE
Inspections Division
Date: 04/03/14

MAX

Mini Split Air Conditioner

12,000 / 24,000 / 36,000 BTU

SAMSUNG

FULL HD FILTER

The Full HD Filter offers improved filtration by removing even the smallest microscopic dust particles and transforming polluted air into clean, fresh air.

SMART INVERTER

Unlike non-inverter air conditioners, Samsung's mini splits with Smart Inverter maintains the ideal temperature without the constant shutting off and on of the compressor.

SUGGESTED BTU'S OF COOLING CALCULATOR

Qty of Lights	Total Combined Wattage	Recommended BTU's of Cooling
1	1,000	10,000 to 14,000
2	2,000	14,000 to 18,000
3	3,000	18,000 to 22,000
4	4,000	22,000 to 26,000
5	5,000	26,000 to 30,000
6	6,000	30,000 to 36,000

Tons of Air Conditioning	Equal to BTU's of Cooling
1 Ton	12,000
2 Tons	24,000
3 Tons	36,000

Seasonal Energy Efficiency Rating (S.E.E.R.)
The higher the S.E.E.R. rating, the higher the efficiency of the system. The regulated minimum is currently 13 S.E.E.R.

NOTICE: This table is meant to be used only as a general guide. Several factors may drastically affect the required BTU's of cooling including, but not limted to: ballast location, the use of a CO2 generator, the use of a dehumidifier, high ceiling, poor insulation, high outdoor temperature and lamp type & shape. You should consult with a qualified HVAC specialist to determine final sizing.

WWW.SUNLIGHTSUPPLY.COM

Distributed by: National Garden Wholesale. Sunlight Supply, Inc.

Inspections Division
Date: 04/03/14

	Indoor Unit		#700550 (AQN12VFUAGM)	#700554 (AQN24VFUAGM)	#700558 (AQN36VFUAGM)
	Outdoor Unit		#700552 (AQX12VFUAGM)	#700556 (AQX24VFUAGM)	#700560 (AQX36VFUAGM)
Performance	Nominal Capacity	Cooling (BTU)	12,000	24,000	36,000
		Heating (BTU)	13,600	27,000	36,000
	Capacity Range	Cooling (BTU)	2,800 - 13,600	4,405 - 27,000	9,000 - 38,000
		Heating (BTU)	2,700 - 17,516	5,700 - 34,000	9,000 - 45,000
	SEER / EER		18.0 / 11.0	15.0 / 9.6	18.0 / 10.8
	HSPF		8.5	7.8	9.0
	AHRI Certification Number		5528497	5463390	5463391
	Condensate (pints/hour)		2.96	6.34	8.45
Power	Voltage (ø/V/Hz)		1 / 208-230 / 60		
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation between each leg)		
	Rated Current (Low / Std. / Max.)	Cooling (A)	1.5 / 5.5 / 5.8	2.6 / 11.9 / 12.5	3.6 / 14.2 / 18.0
		Heating (A)	1.3 / 6.1 / 7.0	2.3 / 13.3 / 16.5	3.3 / 14.5 / 21.0
	Max. Breaker (A)		15	20	30
	Min. Circuit Ampacity (A)		6.2	12.0	19.5
Dimensions	Indoor Unit	Width (inches)	32 9/32	41 15/16	50 3/8
		Height (inches)	11 1/4	11 3/4	13 9/16
		Depth (inches)	7 7/8	8 5/8	10
		Weight (lbs.)	18	25	40
	Outdoor Unit	Width (inches)	31 1/8	34 5/8	36 11/16
		Height (inches)	21 9/16	31 9/32	45 7/8
		Depth (inches)	11 1/4	12 3/16	14 3/4
		Weight (lbs.)	68	118	209
	Condensate Connection		11/16" OD		
Heat Exchanger	Indoor & Outdoor Units	Type	Aluminum Fin - Copper Tube		
		Pipe Diameter	1/4"		
	Indoor Unit		2 row / 14 step	2 row / 16 step	2 row / 18 step
	Outdoor Unit		1 row / 24 step	2 row / 36 step	2 row / 52 step
Sound Pressure Level (dB)	Indoor Unit	Low/High	22 / 36	30 / 41	33 / 46
	Outdoor Unit	High	45	55	58
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115		
		Heating	5 ≤ T ≤ 75		
	Indoor	Cooling	61 ≤ T ≤ 90		
		Heating	T ≤ 80		
Pipe Connections	Indoor & Outdoor	High Side (flare)	1/4"	1/4"	1/4"
		Low Side (flare)	3/8"	5/8"	5/8"
	Maximum / Minimum Line Set Length (ft)		50 / 10	98 / 10	164 / 10
	Maximum Vertical Separation (ft)		26	50	98
Refrigerant	Type		R410A		
	Control Method		Electronic Expansion Valve		
	Factory Charge (oz.)		31.7	58.1	88.1
	Charged for		25 ft.	25 ft.	25 ft.
	Additional Refrigerant		0.16 oz/ft over 25 ft	0.16 oz/ft over 25 ft	0.43 oz/ft over 25 ft
Compressor	Manufacturer		Samsung		
	Type		DC, Inverter Driven, Rotary		
	RLA (A)		3.9	8.3	13.8
	Operating Frequency (Low / Std. / Max.)	Cooling (Hz)	20 / 71 / 82	15 / 76 / 88	15 / 55 / 63
		Heating (Hz)	20 / 83 / 100	15 / 76 / 100	15 / 50 / 69
Evaporator Fan	Type		BLDC Motor with cross/flow fan (1)		
	Air Volume (Max. CFM)		280	530	883
	Consumption	W	17	27	58
	Operating Current (A)		0.2	0.12	0.22
Condenser Fan	Motor		BLDC w/ Axial Fan (1)	BLDC w/ Axial Fan (1)	BLDC w/ Axial Fan (2)
	Output	W	39	124	248
	FLA	Amps	0.17	0.52	1.04
Optional Accessories	Condensate Pump		ASP-MO-UNIV 110-250		
	Premium Wired Controller		#700578 - Includes sub-PCB / wire harness / controller		
	Wall Bracket (for outdoor unit)		CKN-500		
	Line sets - insulated and flared, interconnect cables included		25' - #700570	25' - #700572	
			50' - #700574	50' - #700576	
Safety	Certification		ETL & ETLc		
	Safety Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heater, temperature limit protection logic, compressor overload sensing		
Control			Remote included (optional wired controller available - #700578)		
Warranty			5 yrs compressor, 3 yrs parts (requires factory authorized installer)		

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.

ADDITIONAL FEATURES

Turbo Cooling
The MAX operates in its maximum speed in Turbo Cooling mode to quickly reach the desired set temperature.

Auto Changeover
This feature automatically selects the operating mode (cool or heat) according to the temp setting. When a temperature is selected to the auto mode, the ac heats and cools as required to maintain the set temperature.

Quiet Operation
For greater comfort, Samsung made improvements to reduce vibration and noise level coming from the air conditioner.

Anti Corrosion Fin
Corrosion shortens the life of the heat exchanger by reducing durability and allowing bacteria to grow. Samsung's heat exchanger is designed to resist corrosion so you can enjoy your MAX ac system for a long time.

Zero Standby Power
The MAX saves you money even when it's turned off. The improved control board uses miniscule amounts of energy when off resulting in 90% more savings VS. a conventional system.

CONTROLLERS

Standard Wireless Remote Control

- ON/OFF, Operating Mode, Fan Speed, Airflow, Temp. Setting buttons
- Filter replacement alarm reset
- Simple schedule control
- Easy to read display
- Soft touch buttons

Optional Premium Wired Remote

- ON/OFF, Operating Mode, Fan Speed, Airflow, Temp Setting buttons
- Error display
- Filter replacement alarm reset
- Sleep mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Wireless remote control restriction
- Clear & bright screen w/ LCD backlight
- Weekly schedule setting
- Vacation dates setting
- Temperature range setting