



SAMSUNG

**AQB09JJWC, AQB12JJWC,
AQB18J6WC, AQB24J2WC**

HIGH WALL INVERTER COMPRESSOR HEAT PUMP MINI SPLITS



Construction

Indoor Unit shall be constructed from Anti Bacterial HIPS, certified to UL94 V0. Closed cell foam shall be used to insulate against sweating. The Outdoor unit shall be constructed from galvanized steel with a baked on powder coated finish for durability

Heat Exchangers

The heat exchangers shall be manufactured using diamond cut fins mechanically bonded to copper tubes
A Silver Nano coating shall be provided to remove bacteria from the room air

Refrigerant System

Compressors shall be a hermetically sealed Inverter drive rotary type with external overload protection
Compressors shall be capable of modulating in capacity to match the building load required
A reversing valve, energized for heating shall be used to reverse refrigerant flow. Refrigerant shall be R410a.
Electronic Expansion Valves located in the Outdoor unit shall be used to control refrigerant flow

Condensate Removal

Shall be accomplished via the standard 22" length 11/16" OD Drain hose fitted to the indoor units
For ease of installation the condensate hose can be connected at both the LHS or RHS of the unit drain pan

Fans

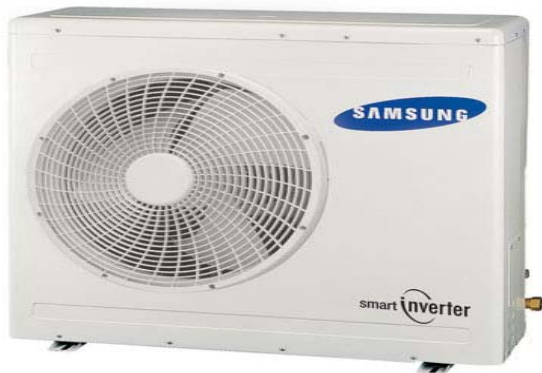
The indoor unit fan shall be molded from Anti Bacterial HIPS, statically and dynamically balanced for quiet operation. Multiple fan speeds shall allow the user to select the required airflow. An auto swing louver with dual blades allows for the conditioned air to be directed further into the room for enhanced cooling and also down for improved heating function. The condenser fan shall be a propeller type with a dual speed motor

Controls

The unit shall be operated via a hand held wireless remote controller with a range of 20ft
The controls shall feature an auto changeover function from cooling to heating using the Outdoor temperature as a reference. Unit control is via a DDC control signal which shall require shielded 18AWG wire and a minimum of 2" separation from high voltage power wiring
Unit shall be capable of operating in cooling down to an ambient temperature of 23 DegF as standard

Air Filtration

Air filters shall be treated with the Silver Nano protection to further enhance the IAQ features of the unit
Silver Nano treatment is applied to the surfaces of the air filter, removing 99.9% of dust particles and viruses
As these Silver Nano particles come into contact with germs and bacteria, the respiration of these viruses is prevented, stopping any cell multiplication and ultimately causing the individual cells to be killed



Warranty

120 Days Limited Labor, 3 Years Parts and 5 Years Compressor

Accessories

Line Sets - these 25 ft and 50ft long line sets have both the Suction and Expanded Gas "Liquid" lines insulated are include both power wiring and control wiring harnesses
 Condensate Pumps - Provide positive condensate removal when a gravity drain is not possible
 Mounting Brackets - these shall allow the Outdoor unit to be securely mounted on an outside wall

Specifications	AQB09JJWC	AQB12JJWC	AQB18J6WC	AQB24J2WC
General				
Nom Cooling Capacity (Btu/h)	9,000	12,000	18,000	24,000
SEER	20.0	19.0	17.0	15.5
Cooling Capacity Range (Btu/h)	3,100 to 11,900	3,100 to 14,300	5,500 to 21,000	6,500 to 27,000
Nom Heating Capacity (Btu/h)	11,950	13,600	20,500	27,000
HSPF	10.0	9.0	8.0	7.8
Heating Capacity Range (Btu/h)	3,100 to 17,000	3,100 to 18,700	5,100 to 30,700	5,800 to 35,000
Refrigerant Type	R410A	R410A	R410A	R410A
De-Hum (Pints/Hr)	5.6	7.6	10.2	14.4
Power Voltage	208/230V-1-60			
Breaker Size	15A	15A	20A	25A
RLA Cooling/Heating (Amps)	3.3/4.4A	4.9/5.3A	7.5/8.2A	12.0/13.0A
Controls	Electronic with a Hand Held Remote Controller (20' Range)			
Indoor Unit				
Airflow-High Speed (CFM)	265	280	445	490
Fan Speeds	High - Medium - Low			
Noise Level Low/High Spd (Db)	28/41	28/43	33/48	35/48
Width (Inches)	32 1/2"	32 1/2"	42"	42"
Height (Inches)	11 1/4"	11 1/4"	11 3/4"	11 3/4"
Total Depth (Inches)	7 1/2"	7 1/2"	8 5/8"	8 5/8"
Weight (lbs)	18	18	28.6	28.6
Outdoor Unit				
Outdoor Noise Level (Db)	51	53	58	60
Width (Inches)	31 1/8"	31 1/8"	34 5/8"	34 5/8"
Height (Inches)	21 5/8"	21 5/8"	25 1/8"	31 1/2"
Total Depth (Inches)	11 1/4"	11 1/4"	12 1/4"	12 1/4"
Weight (lbs)	88	88	110	125.4
Line Sets				
Size	1/4" & 3/8"	1/4" & 3/8"	1/4" & 1/2"	1/4 & 5/8"
Max Line Set Length including	50 ft	50 ft	98 ft	98 ft
Max Vertical Separation of	26ft	26ft	49ft	49ft
Charged with R410A for	25ft (35.3oz R410A)	25ft (35.3oz R410A)	25ft (51.1oz R410A)	25ft (58.2oz R410A)
Addl R410A charge over this @	0.1oz/ft over 25ft	0.1oz/ft over 25ft	0.2oz/ft over 25ft	0.15oz/ft over 25ft

Certification

Safety UL & Ulc
 Performance ARI Certified - All performance shown is at ARI 210/240 conditions

Due to Samsung's policy of on-going product development specifications are subject to change without notice



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