

*Comfort through Innovation*



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Santa Fe Springs, CA 888-699-6067 | Carlisle, PA 866-243-6498



2009 Mini Split A/C Catalog



Quietside Mini Splits provide simple solutions to your comfort problems. Whether it's cooling down hot spots inside an existing building to conditioning sunrooms, bedrooms or garages, the Quietside range of Mini Splits provides an attractive, 'simple-to-install-and-use' option. In addition to these features, both Indoor and Outdoor units are designed for a low noise level and small footprint to minimize the intrusion into your space.

### Single Zone Systems Cooling Only and Heat Pump



### Multi-Functional Remote Control



*Comfort through Innovation*

### Features and Benefits

**Reliable & Efficient Rotary Compressor** - These units utilize the Toshiba R410A Rotary Compressor, which are world renowned for their reliability and efficiency levels, allowing the Quietside units to meet 13 SEER, 7.7 HSPF requirements while keeping unit footprint & noise levels to a minimum.

**Self Diagnostic / Fault Codes** - In the unlikely event of a fault occurring with the system, the units are capable of diagnosing the fault and displaying the fault code on the indoor unit.

**Warm Start (Heat Pump only)** - On initial start-up and restart from a defrost period, the indoor fan is prevented from operating until the indoor coil temperature has reached 98F. It will then start in the ultra low speed, increasing in speed to the set fan speed as the indoor coil temperature increases. This prevents cold air being blown onto the end user, increasing their comfort level.

**Demand Defrost (Heat Pump only)** - In order to increase efficiency and reduce time spent in defrost, these units use a demand defrost system based on outdoor coil temperature.

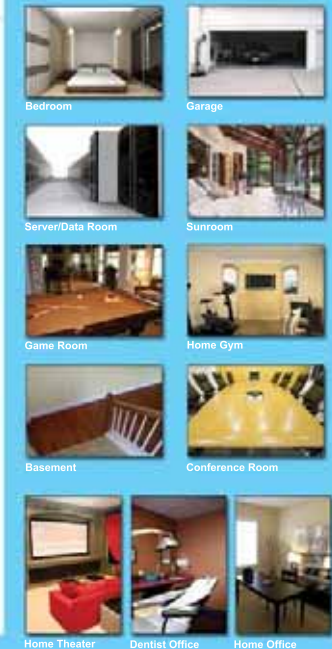
**Unobtrusive Indoor & Outdoor Unit Design** - The Quietside indoor and outdoor units are designed to take up a minimum amount of space to and blend into any decor.

**Wireless Remote Control** - Each unit has a wireless remote controller allowing the end user to select operating mode, set temperature, fan speed, air vane operation (sweep or fixed) and also program a single-timed start or stop of the system.

**Low Noise Levels** - Extremely quiet unlike noisy conventional systems.

**Dry Mode** - Dehumidify the air during hot and humid weather.

### Applications



**Dual Zone Systems - Heat Pump**

18,000 & 24,000 BTU (2x9K evaps and 2x12K evaps)



**Features and Benefits**

**Inverter Technology** - The Quietside Dual Zone Mini Split Air Conditioner system uses a Mitsubishi Inverter Compressor for added reliability, performance and energy-saving efficiency.

**Dual Evaporators** - Control both evaporators with a single condensing unit. Each evap can operate independently (both must be in cooling or heating mode).

**On / Off Timers** - Set a time for the system to automatically turn on or off.

**Automatic Restart Function** - In case of a power failure, the system automatically resumes where it left off before losing power.

**Easy Maintenance** - The evaporator filter is simple to remove and clean.

**Dual Air Delivery** - Double louvers (vanes) deliver the air in an 'up & down' motion to maximize cooling or heating performance.

**Self Diagnostic / Fault Codes** - In the unlikely event of a fault occurring with the system, the units are capable of diagnosing the fault and displaying the fault code on the indoor unit.

**Warm Start (Heat Pump only)** - On initial start-up and restart from a defrost period, the indoor fan is prevented from operating until the indoor coil temperature has reached 98F. It will then start in the ultra low speed, increasing in speed to the set fan speed as the indoor coil temperature increases. This prevents cold air being blown onto the end user, increasing their comfort level.

**Demand Defrost (Heat Pump only)** - In order to increase efficiency and reduce time spent in defrost, these units use a demand system based on outdoor coil temperature to sense when it's sufficiently frosted over to reduce performance and efficiency.

**Unobtrusive Indoor & Outdoor Unit Design** - The Quietside indoor and outdoor units are designed to take up a minimum amount of space to and blend into any decor.

**Wireless Remote Control** - Each unit has a wireless remote controller allowing the end user to select operating mode, set temperature, fan speed, air vane operation (sweep or fixed) and also program a single-timed start or stop of the system.

**Low Noise Levels** - Extremely quiet unlike noisy conventional systems.

**Independent De-Humidification (Dry Mode)** - Lowers the humidity level in the room without affecting room temperature.

**Dual Zone Inverter Technology**

The Quietside Dual Zone systems use a single inverter drive compressor to serve both of the indoor units, with refrigerant flow controlled via individual electronic expansion valves.

The compressor performance is controlled by the number of indoor units operating, how far each unit is away from the desired temperature setpoint and the outdoor (ambient) temperature. The greater the capacity required, the compressor increases in speed. Then, as the units reach the set point temperature, the compressor will slow down reducing energy consumption.

This ability to control capacity and energy usage provides exceptional performance and efficiency from the Quietside Dual Zone system.

**System Operating Range**

Low Ambient cooling operation down to 32°F.

Heat Pump heating operation down to 5°F.

**Applications (2 Evaporators)**

- Bedroom + Home Office
- Sunroom + Game Room
- Garage + Home Gym
- Kitchen + Basement

*The Quietside Dual Zone air conditioning system can also be used in a variety of commercial applications, such as churches, delicatessens, shops, dentists/doctors office, business offices and conference rooms, just to name a few.*

**Additional Features**

**Multi-Fold Evaporator**



A multi-fold evaporator in the indoor unit increases the size of the heat exchanger enhancing cooling/heating efficiency. This also allows the evaporator to be more compact in size.

**High Quality Rifled Copper Piping**



Rifled copper tubes enable refrigerant to flow much faster, enhancing heat exchange efficiency by up to 30-50%, compared to traditional copper tubes.

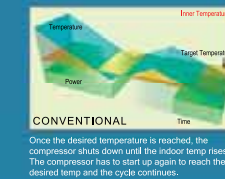
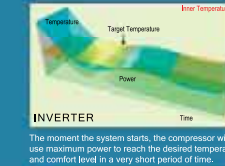
**Hydrophillic-Coated Aluminum Fin**



Blue-colored hydrophillic-coated aluminum fin enhances the drainage of condensate in the indoor unit.

**Inverter vs. Conventional**

**Efficiency**

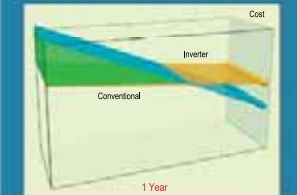


**Precise Temperature Control**

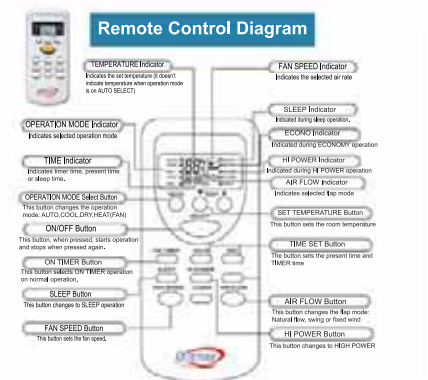


The inverter compressor, combined with the Electronic Expansion Valves and multiple indoor coil temperature sensors, provide exceptional control of the refrigerant flow in the system resulting in precise control of the room temperature, when compared to a conventional on/off single speed compressor system.

**Energy Savings**



Different from conventional systems, the Quietside Inverter system can control compressor's rotational speed, providing precise temperature control. When the desired temperature is reached, the compressor reduces its rotational speed, keeping temperatures steady, resulting in 44% energy savings. Due to these savings, an Inverter system can quickly regain the slightly higher investment cost over a conventional system.



**Low Sound Levels**

As the desired setpoint temperature is approached, the DC Inverter compressor in the outdoor unit slows down, resulting in a reduction in the noise level (Db).

This system also utilizes a BLDC condenser fan motor, which is characterized by much lower sound levels compared to most motors used in conventional a/c condensers.

These 2 items contribute to class-leading noise levels, especially during part-load operation.



Cooling Only Single Zone	QSCE091	QSCE121	QSCE181	QSCE241
Nominal Btu/h	9,000	12,000	18,000	24,000
SEER	13	13	13	13
Voltage	115V-1Ph-60Hz	115V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size (A)	15A	15A	20A	25A
RLA (A)	6.7A	8.8A	5.3A	8.6A
<b>INDOOR UNIT</b>	<b>QSCE-091</b>	<b>QSCE-121</b>	<b>QSCE-181</b>	<b>QSCE-241</b>
Airflow Hi Speed (CFM)	360	400	610	710
Noise Level (Db)	42	45	45	50
Width (Inches)	30 7/8"	35 1/4"	42 1/8"	48 7/8"
Depth (Inches)	6 7/8"	6 7/8"	8 7/8"	8 7/8"
Height (Inches)	11"	11"	12 3/4"	12 3/4"
Unit Weight (lbs)	19 lbs	22 lbs	38 lbs	44 lbs
<b>OUTDOOR UNIT</b>	<b>QSCC-091</b>	<b>QSCC-121</b>	<b>QSCC-181</b>	<b>QSCC-241</b>
Noise Level (Db)	55	55	60	62
Width (Inches)	31 3/8"	33 1/2"	34 1/4"	35 3/8"
Depth (Inches)	8 7/8"	8 7/8"	11 3/8"	13"
Height (Inches)	21 3/8"	24"	33 1/2"	33"
Unit Weight (lbs)	70 lbs	107 lbs	137 lbs	143 lbs
<b>LINE SETS</b>				
Ref Pipe Sizes (Inches)	1/4" & 1/2"	1/4 & 1/2"	3/8" & 5/8"	3/8" & 5/8"
Maximum Length (ft)	50 ft	50 ft	50 ft	50ft
Max Vertical Sep (ft)	20 ft	20 ft	20 ft	20ft
Factory Charge for (ft)	25 ft	25 ft	25 ft	25ft
Add'l Charge (oz/ft)	0.3 oz/ft	0.3 oz/ft	0.5 oz/ft	0.5 oz/ft
ARI Certification No.	3016978	3016979	3016980	3016981

Quietside maintains a policy of ongoing development and specifications are subject to change without notice.

Heat Pump Single Zone	QSHE091	QSHE121	QSHE181	QSHE241
Nominal Btu/h	9,000	12,000	18,000	24,000
SEER	13	13	13	13
Voltage	115V-1Ph-60Hz	115V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size (A)	15A	15A	20A	25A
RLA (A)	6.7A	8.8A	5.3A	8.6A
<b>INDOOR UNIT</b>	<b>QSHE-091</b>	<b>QSHE-121</b>	<b>QSHE-181</b>	<b>QSHE-241</b>
Airflow Hi Speed (CFM)	360	400	610	710
Noise Level (Db)	42	45	45	50
Width (Inches)	30 7/8"	35 1/4"	42 1/8"	48 7/8"
Depth (Inches)	6 7/8"	6 7/8"	8 7/8"	8 7/8"
Height (Inches)	11"	11"	12 3/4"	12 3/4"
Unit Weight (lbs)	19 lbs	22 lbs	38 lbs	44 lbs
<b>OUTDOOR UNIT</b>	<b>QSHC-091</b>	<b>QSHC-121</b>	<b>QSHC-181</b>	<b>QSHC-241</b>
Noise Level (Db)	55	55	60	62
Width (Inches)	31 3/8"	33 1/2"	34 1/4"	35 3/8"
Depth (Inches)	8 7/8"	8 7/8"	11 3/8"	13"
Height (Inches)	21 3/8"	24"	33 1/2"	33"
Unit Weight (lbs)	70 lbs	107 lbs	137 lbs	143 lbs
<b>LINE SETS</b>				
Ref Pipe Sizes (Inches)	1/4" & 1/2"	1/4 & 1/2"	3/8" & 5/8"	3/8" & 5/8"
Maximum Length (ft)	50 ft	50 ft	50 ft	50ft
Max Vertical Sep (ft)	20 ft	20 ft	20 ft	20ft
Factory Charge for (ft)	25 ft	25 ft	25 ft	25ft
Add'l Charge (oz/ft)	0.3 oz/ft	0.3 oz/ft	0.5 oz/ft	0.5 oz/ft
ARI Certification No.	3017097	3017098	3017099	3017100

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Heat Pump Dual Zone	QSHD18A	QSHD24A
Nominal Btu/h	9,000	12,000
SEER	15.6	14.2
Cooling Range (Btu/h)	3,500 - 11,500	5,000 - 14,500
Nom Heating (Btu/h)	11,000	12,500
HSPF	8.1	7.9
Heating Range (Btu/h)	4,750 - 12,000	4,750 - 13,500
Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size (Amps)	20	20
RLA Cool/Heat (Amps)	10.5 / 9.8	13 / 13.7
<b>INDOOR UNIT</b>	<b>QSIHD-09A</b>	<b>QSIHD-12A</b>
Airflow Hi/Med/Low	350/300/200 CFM	460/400/220 CFM
Noise Level (Db)	42	45
Width (Inches)	31 1/8	36 5/8
Depth (Inches)	8 1/4	8 1/4
Height (Inches)	10 5/8	10 7/8
Unit Weight (lbs)	26 lbs	31 lbs
<b>OUTDOOR UNIT</b>	<b>QSOHD-18A</b>	<b>QSOHD-24A</b>
Noise Level (Db)	57	57
Width (Inches)	36 1/2	35 1/2
Depth (Inches)	14 1/4	13.5
Height (Inches)	27 5/8	32
Unit Weight (lbs)	154	163
<b>LINE SETS</b>		
Ref Pipe Sizes (Inches)	1/4 & 3/8	1/4 & 1/2
Maximum Length (ft)	50 ft	50 ft
Max Vertical Sep (ft)	20 ft	20 ft
Factory Charge for (ft)	25 ft	25 ft
Add'l Charge (oz/ft)	0.3 oz/ft	0.3 oz/ft
<b>CONTROLS</b>		
Control Method	Wireless Remote with a Temperature Sensor in each Indoor Unit	
Control Voltage	208/230	208/230
<b>CERTIFICATION</b>		
Safety	ETL & ETLc	ETL & ETLc
ARI Certification No.	3108117	3108118

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### Accessories

#### Line Sets

Single Zone Line Sets (Includes 14-7 Wire)  
**SL52507** - 25 ft (1/4" x 1/2")  
**SL55007** - 50 ft (1/4" x 1/2")  
**SL52508** - 25 ft (3/8" x 5/8")  
**SL55008** - 50 ft (3/8" x 5/8")

Dual Zone Line Sets (Includes 14-7 Wire)  
**IL52506** - 25 ft (1/4" x 3/8")  
**IL55006** - 50 ft (1/4" x 3/8")  
**IL52507** - 25 ft (1/4" x 1/2")  
**IL55007** - 50 ft (1/4" x 1/2")

#### Condensate Pumps

Single Zone Pumps  
**Part Number: ASP-MO-115** - 9K & 12K BTU Systems (115V)  
**Part Number: ASP-MO-230** - 18K & 24K BTU Systems (230V)

Dual Zone Pumps  
**Part Number: ASP-MO-230**

#### Condenser Mounting Brackets

9K & 12K BTU  
**Part Number: CKN-90** - Up to 90 lbs  
 18K & 24K BTU (will also work for smaller units)  
**Part Number CKN-250** - Up to 250 lbs

#### R410A Adapter (5/8" to 1/4" schrader adapter)

**Part Number - R410A-ADPT**  
 (Yellow Jacket Part Number - 19173)

#### Interconnect Wire

Single Zone Wire (14 AWG, 7 Conductor Standed Cable)  
**M33-100 - 100ft** Spool  
**M33-250 - 250ft** Spool  
**M33-500 - 500ft** Spool

Dual Zone Wire (16AWG, 2 Conductor Plus Shield Used for Control Wiring)  
**I33-100 - 100ft** Spool  
**I33-250 - 250ft** Spool  
**I33-500 - 500ft** Spool

### Warranty

For Both Single and Dual Zone Systems

Compressor - 5 Years  
 Functional Parts - 1 Year  
 Labor Allowance - 90 days (limited)