



PINNACLE

Submittal Data: SC-12WPL-HP230 / SC-12ZPL-HP230 12,000 BTU/H Wall Mounted Heat- Pump System

| | | |
|------------------|--------------|--|
| Job Name | Location | Date |
| Purchaser | Engineer | |
| Submitted To | For | <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Unit Designation | Schedule No. | |

- GENERAL FEATURES**
- Variable Speed (Inverter) Two-Stage Compressor
 - Low Ambient Heating (down to -22° F)
 - High Ambient Cooling (up to -129° F)
 - WIFI Included
 - Wireless Remote with LCD Display (included)
 - 7 Indoor Fan Speeds /4 Way Airflow Operation
 - Copper Tube/Aluminum Fins w/Acrylic Resin Anti-Corrosion both inside and out
 - I-FEEL Function



| System Ratings | Indoor Unit Data |
|----------------|------------------|
|----------------|------------------|

| | |
|-----------------------|---------------------|
| Cooling | |
| Rated Capacity | 12,000 BTU/H |
| Capacity Range | 2,900 -15,354 BTU/H |
| Power Input | 784 W |
| Power Input (Min/Max) | 75/1500 W |
| SEER | 30.5 |
| EER | 15.3 |

| | | |
|-------------------------|--------------------|-------------|
| Fan Motor | Type | Cross-flow |
| | Output Power | 60 W |
| | FLA | 0.09 A |
| Airflow | (Low/High) | 235/500 CFM |
| Air Throw | (Max) | 29.5 ft |
| Sound Level | | |
| | Cooling (Low/High) | 22/49 dB(A) |
| | Heating (Low/High) | 22/49 dB(A) |
| Dehumidification | | 3.0 pt/hr |

| | |
|-------------------------|---------------------|
| Heating at 47° F | |
| Rated Capacity | 12,200 BTU/H |
| Capacity Range | 3,071 -18,766 BTU/H |
| Power Input | 940 W |
| Power Input (Min/Max) | 250/1600 W |
| HSPF | 14.0 |
| COP | 3.8 |

| Outdoor Unit Data | | |
|-------------------|--|--|
|-------------------|--|--|

| | | |
|--------------------|--------------|-----------------------------------|
| Compressor | Type | DC Inverter Driven 2-Stage Rotary |
| | RLA | 6.9 A |
| Fan Motor | Output Power | 30 W |
| | RLA | 0.24 A |
| Sound Level | | 53 dB(A) |

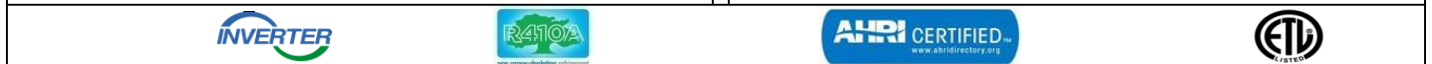
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|-------------------------|-------------|
| Heating at 17° F | |
| Rated Capacity | 8,100 BTU/H |

| | | | |
|------------------------|-------|--|--------------|
| Operating Range | | | |
| Cooling | (Max) | | 129°F(54°C) |
| | (Min) | | 0°F(-18°C) |
| Heating | (Max) | | 75°F (24°C) |
| | (Min) | | -22°F(-30°C) |

| Refrigerant Piping Data | |
|-------------------------|--|
|-------------------------|--|

| | |
|--------------------------------|---------------|
| Gas Pipe Size (OD) | 1/2-in |
| Liquid Pipe Size (OD) | 1/4-in |
| Connection Method | Flared |
| Factory Charge | R410A/49.4 oz |
| Additional Charge | 0.20 oz/ft |
| Pre-Charge Length | 25-ft |
| MAX Refrigerant Pipe Length | 98-ft |
| MIN Refrigerant Pipe Length | 10-ft |
| MAX Refrigerant Pipe Elevation | 49-ft |

| | |
|---------------------------------|---------------------------|
| Power Supply | |
| Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |
| Voltage Range | 187 - 253 V |
| Main Power Wire Size | 12-2 AWG |
| Interconnecting Cable Wire Size | 14-4 AWG |
| MCA | 9 A |
| MOCP/Breaker Size | 15 A |



| SYSTEM FEATURES | |
|--|------------------------------|
| Inverter Type | G10 |
| Ultra Low Frequency Torque Control | Yes |
| Power Factor Correction | Yes |
| Compressor Type | High Eff. Two Stage Rotary |
| Refrigerant Type | R410A |
| Basepan With Electric Heater | YES |
| Compressor With Electric Heater | YES |
| Indoor & Outdoor Fin Coating | Acrylic Resin/Anti-Corrosion |
| Intelligent Defrosting | YES |
| Intelligent Preheating | YES |
| Low Voltage Startup | YES |
| Memory/Power Failure Recovery | YES |
| Self Diagnosis | YES |
| Wired Controller Interface | NO |
| WIFI Included | YES |
| Indoor Fan Type | Crossflow |
| Multi Fan Speeds | 7 Speeds |
| Indoor Unit Display | YES |
| Auxiliary Electrical Heater | NO |
| Ventilation (Outdoor Air) | NO |
| REMOTE CONTROLLER FUNCTIONS | |
| Auto Mode | YES |
| Auto Fan | YES |
| Auto Swing (Horizontal Auto Swing) | YES |
| Auto Swing - 180°(Vertical Auto Swing) | YES |
| Clock on Remote Controller | YES |
| Dry Mode | YES |
| Dry Anti-Mildew (X-Fan) Mode | YES |
| Energy Saving Mode | NO |
| Dirty Filter Alert | NO |
| Fan Speed Control (7 speeds) | YES |
| I Feel Function | YES |
| Privacy Lock on Remote Controller | YES |
| Quiet Mode | YES |
| Room Temperature Display | NO |
| Sleep Mode | YES |
| 4 Sleep Modes Options | YES |
| Timer Mode | YES |
| Turbo Mode | YES |
| Display On/Off Control | YES |
| Freeze Guard Mode | NO |
| Display On/Off Control | YES |
| Freeze Guard Mode | YES |
| Power Failure Mode | YES |

COOLING PERFORMANCE

| Outdoor Ambient Temperature (DB) | | Return Air Temperature | | | |
|----------------------------------|-------|------------------------|--------|-------|-----------------|
| | | 80°F (DB) | | | |
| | | TC (Btu/h) | SHR | EER | Power Input (W) |
| MAX OUTPUT | 0°F | 7000 | 72.50% | 10.99 | 637 |
| | 5°F | 7280 | 73.00% | 11.20 | 650 |
| | 10°F | 7490 | 73.26% | 11.19 | 670 |
| | 15°F | 7700 | 73.50% | 11.18 | 689 |
| | 20°F | 8050 | 73.76% | 11.26 | 715 |
| | 25°F | 8400 | 74.00% | 11.34 | 741 |
| | 30°F | 8680 | 74.26% | 11.41 | 761 |
| | 35°F | 8960 | 74.50% | 11.49 | 780 |
| | 40°F | 9800 | 75.00% | 11.60 | 845 |
| | 45°F | 10220 | 75.26% | 11.15 | 917 |
| | 50°F | 10640 | 75.50% | 10.77 | 988 |
| | 55°F | 11340 | 76.00% | 10.90 | 1040 |
| | 60°F | 12110 | 76.27% | 10.96 | 1105 |
| | 65°F | 12880 | 76.50% | 11.01 | 1170 |
| | 70°F | 13510 | 76.76% | 11.23 | 1203 |
| | 75°F | 14140 | 77.00% | 11.45 | 1235 |
| | 80°F | 14700 | 77.26% | 11.72 | 1255 |
| | 85°F | 15260 | 77.50% | 11.98 | 1274 |
| | 90°F | 14630 | 77.74% | 11.37 | 1287 |
| | 95°F | 14000 | 78.00% | 10.77 | 1300 |
| | 100°F | 13300 | 78.24% | 9.84 | 1352 |
| | 105°F | 12600 | 78.50% | 8.97 | 1404 |
| | 110°F | 12180 | 78.74% | 8.40 | 1450 |
| | 115°F | 11760 | 79.00% | 7.87 | 1495 |
| 120°F | 10360 | 79.50% | 6.87 | 1508 | |
| 125°F | 9380 | 79.72% | 6.19 | 1515 | |
| 129°F | 8400 | 80.00% | 5.52 | 1521 | |

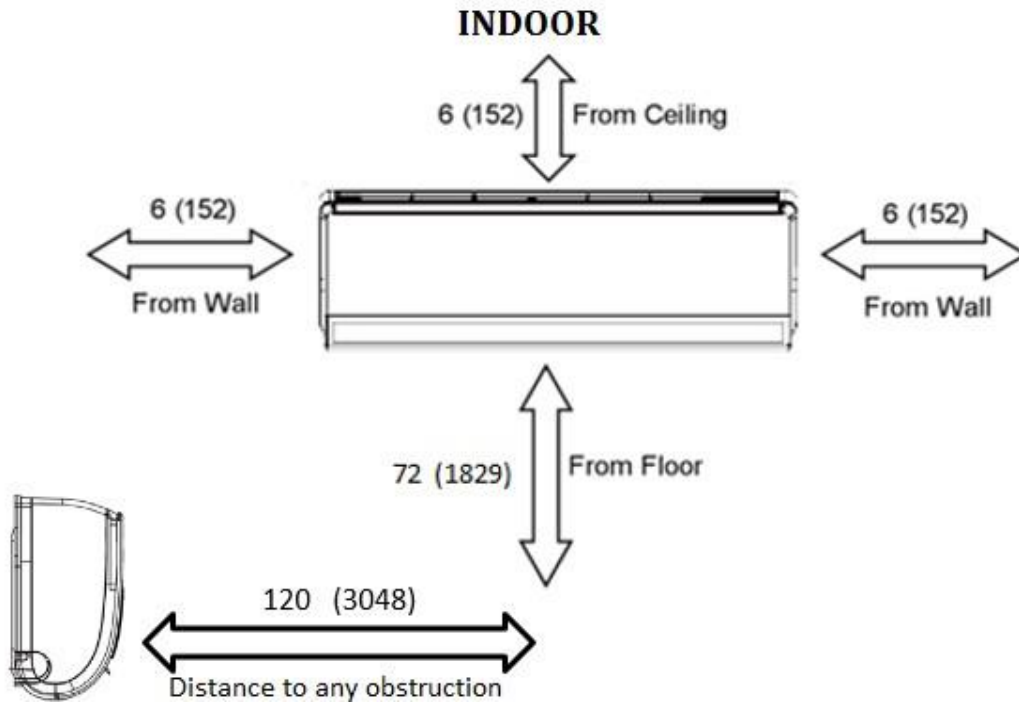
HEATING PERFORMANCE

| Outdoor Ambient Temperature (DB) | | Return Air Temperature | | |
|----------------------------------|-------|------------------------|------|-----------------|
| | | 70°F (DB) | | |
| | | TC (Btu/h) | COP | Power Input (W) |
| MAX OUTPUT | -22°F | 6400 | 1.23 | 1523 |
| | -20°F | 6640 | 1.26 | 1544 |
| | -15°F | 6880 | 1.29 | 1566 |
| | -10°F | 7280 | 1.35 | 1588 |
| | -5°F | 7680 | 1.40 | 1610 |
| | 0°F | 10400 | 1.86 | 1639 |
| | 5°F | 12000 | 2.11 | 1668 |
| | 10°F | 12800 | 2.33 | 1610 |
| | 15°F | 13520 | 2.48 | 1602 |
| | 17°F | 14240 | 2.62 | 1595 |
| | 20°F | 14400 | 2.77 | 1523 |
| | 25°F | 14560 | 2.89 | 1479 |
| | 30°F | 14880 | 2.98 | 1465 |
| | 35°F | 15040 | 3.09 | 1428 |
| | 40°F | 15200 | 3.20 | 1392 |
| | 45°F | 15680 | 3.23 | 1421 |
| | 47°F | 16000 | 3.23 | 1450 |
| | 50°F | 16640 | 3.31 | 1472 |
| | 55°F | 17280 | 3.39 | 1494 |
| | 60°F | 18400 | 3.51 | 1537 |
| | 65°F | 17600 | 3.26 | 1581 |
| | 70°F | 16960 | 3.12 | 1595 |
| | 75°F | 15840 | 2.88 | 1610 |

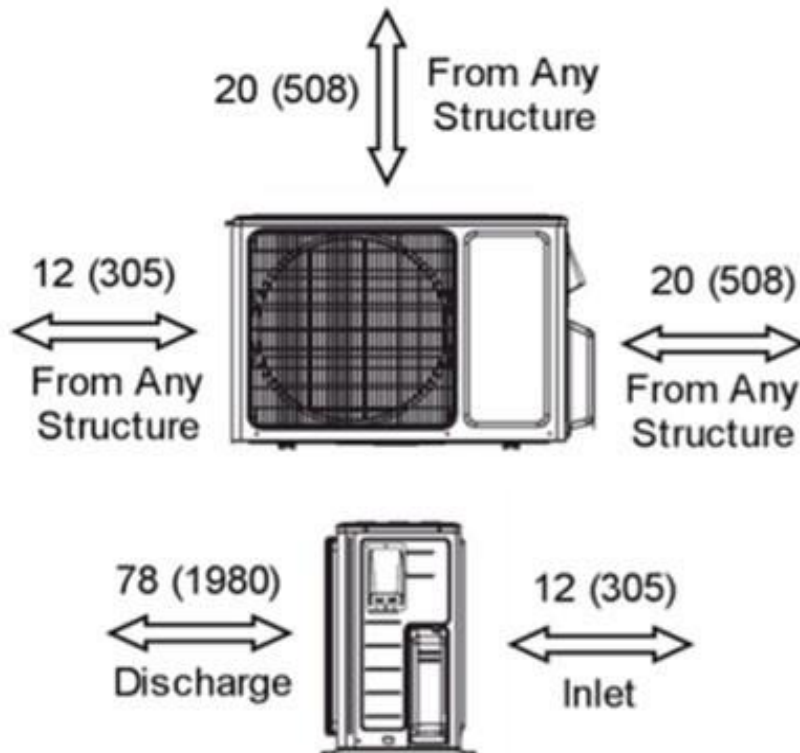
LEGEND: W - Watts
 DB - Dry Bulb
 TC - Total Capacity
 SHR - Sensible Heat Ratio
 COP - Coefficient of Performance

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



MINIMUM OUTDOOR CLEARANCES



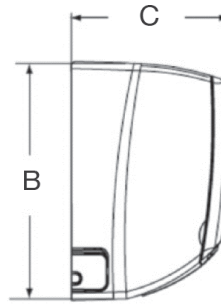
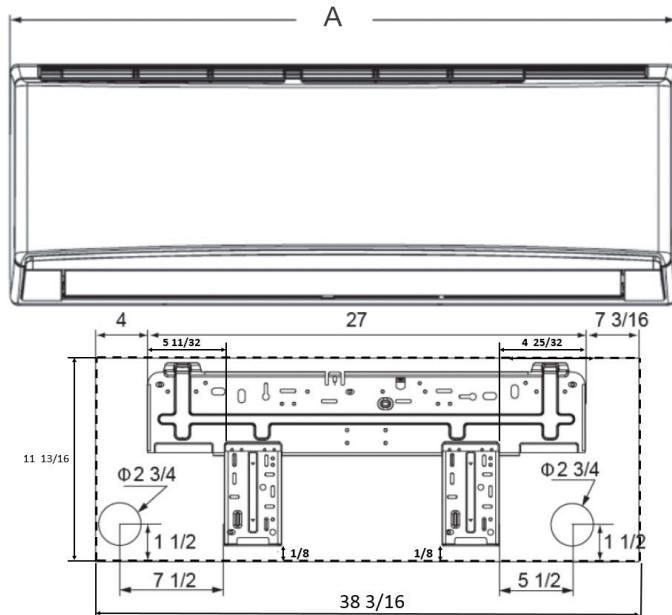
DIMENSIONAL SPECIFICATIONS

SC-12WPL-HP230

INDOOR UNIT DIMENSIONS

Units: inch

Model No: SC-12WPL-HP230



| Dimensions | |
|------------|--------|
| A | 39 1/2 |
| B | 12 |
| C | 8 7/8 |

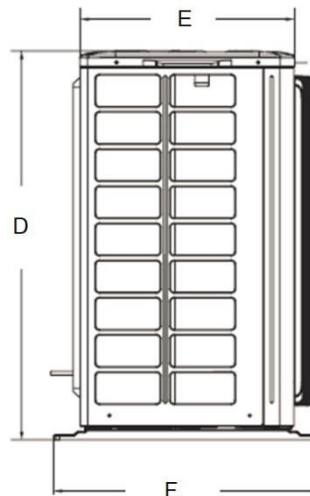
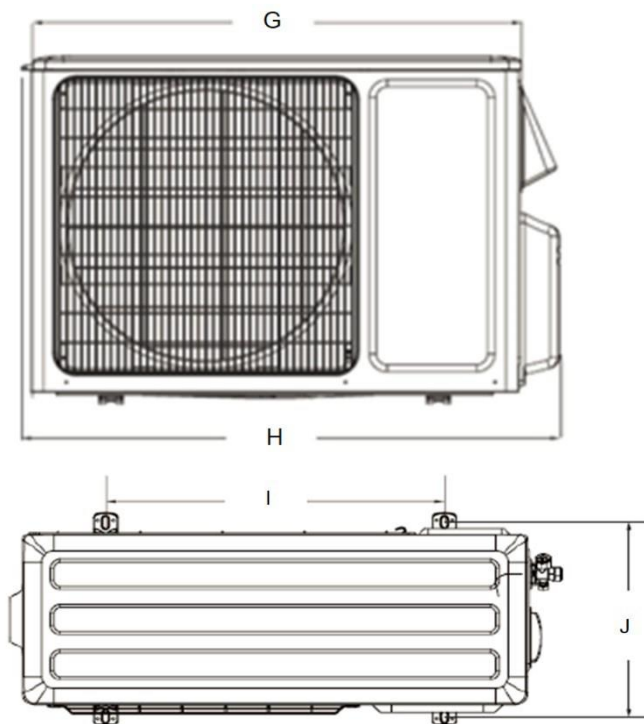
Weight (Net/Shipping) 29 / 36 LBS

| | |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve | 1/2-in OD Flared |
| Drain Connector | 5/8-in OD |

OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: SC-12ZPL-HP230



| Dimensions | |
|------------|--------|
| D | 23 1/2 |
| E | 12 |
| F | 14 7/8 |
| G | 33 1/4 |
| H | 34 5/8 |
| I | 19 3/8 |
| J | 13 1/2 |

| | |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve | 1/2-in OD Flared |

Weight (Net/Shipping) 98 /104 LBS

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.