

SVZ-AP60NL & SUZ-AK60NL  
60,000 BTU/H DUCTED AIR HANDLER INDOOR UNIT  
60,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....SVZ-AP60NL

Outdoor Unit.....SUZ-AK60NL

#### INDOOR UNIT FEATURES

- Unique blow through design: Unique blow through design allows simple coil cleaning when the blower is removed
- Selectable external static pressure: Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- Positive pressure cabinet: Positive pressure cabinet with air leakage of less than 1.0% at 1.0 in.WG
- Optional humidifier control and ERV control
- Optional electric heat kit: Optional electric heat kit for additional heat capacity
- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- Multi-zone: A multi-zone unit provides the temperature management of multiple zones within a building.
- Multi-position installation: Multi-position installation: horizontal (left or right), vertical (up or down). For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blow-off in certain conditions
- Fiberglass free insulation: 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency
- Enclosed ECM motor: Highly efficient totally enclosed ECM motor
- Ducted air handler: Ducted air handler provides a solution to cool and heat large zones

#### OUTDOOR UNIT FEATURES

- Blue Fin Coating: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- High-performance grooved piping : High-performance grooved piping for increased heat exchange efficiency
- Hot-Start Technology: Hot-Start Technology ensures the fan only activates once the heat exchanger is warm, preventing cold air blasts during start-up.
- INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Joint Lap DC Motor: Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology: Pulse Amplitude Modulation technology enhances energy efficiency by adjusting the power supply to optimize compressor performance, ensuring precise capacity control and reduced energy consumption.
- Quiet operation: Quiet operation units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Single-zone: One outdoor unit connects to one indoor unit to control the comfort in a single space.

# SPECIFICATIONS: SVZ-AP60NL & SUZ-AK60NL

|                             |                                              |                                      |                                          |
|-----------------------------|----------------------------------------------|--------------------------------------|------------------------------------------|
| Cooling at 95F <sup>1</sup> | Maximum Capacity                             | Btu/h                                | 60,000                                   |
|                             | Rated Capacity                               | Btu/h                                | 60,000                                   |
|                             | Minimum Capacity                             | Btu/h                                | 18,500                                   |
|                             | Maximum Power Input                          | W                                    | 6,070                                    |
|                             | Rated Power Input                            | W                                    | 5,490                                    |
|                             | Moisture Removal                             | Pints/h                              | 14.3                                     |
|                             | Sensible Heat Factor                         | -                                    | 0.74                                     |
| Heating at 47F <sup>2</sup> | Power Factor [208V / 230V]                   | %                                    | 99 / 99                                  |
|                             | Maximum Capacity                             | Btu/h                                | 67,000                                   |
|                             | Rated Capacity                               | Btu/h                                | 66,500                                   |
|                             | Minimum Capacity                             | Btu/h                                | 14,600                                   |
|                             | Maximum Power Input                          | W                                    | 6,740                                    |
|                             | Rated Power Input                            | W                                    | 6,720                                    |
|                             | Power Factor [208V / 230V]                   | %                                    | 97 / 97                                  |
| Heating at 17F <sup>3</sup> | Maximum Capacity                             | Btu/h                                | 42,500                                   |
|                             | Rated Capacity                               | Btu/h                                | 42,500                                   |
|                             | Maximum Power Input                          | W                                    | 5,415                                    |
|                             | Rated Power Input                            | W                                    | 5,415                                    |
| Heating at 5F <sup>4</sup>  | Maximum Capacity                             | Btu/h                                | 34,600                                   |
|                             | Maximum Power Input                          | W                                    | 5,070                                    |
| Heating at -4F <sup>5</sup> | Maximum Capacity                             | Btu/h                                | 31,000                                   |
| Efficiency                  | SEER2                                        |                                      | 17                                       |
|                             | EER2 <sup>1</sup>                            |                                      | 9                                        |
|                             | HSPF2 [IV]                                   |                                      | 8                                        |
|                             | COP at 47°F <sup>2</sup>                     |                                      | 2.9                                      |
|                             | COP at 17°F at Maximum Capacity <sup>3</sup> |                                      | 2.3                                      |
|                             | COP at 5°F at Maximum Capacity <sup>4</sup>  |                                      | 2                                        |
|                             | COP at -4°F at Maximum Capacity <sup>5</sup> |                                      | 1.88                                     |
| Electrical                  | ENERGY STAR® Certified                       |                                      | No                                       |
|                             | Voltage, Phase, Frequency                    | V AC / V AC, ø, Hz                   | 208 / 230, 1, 60                         |
|                             | Guaranteed Voltage Range                     | V AC                                 | 198 - 253                                |
|                             | Voltage: Indoor - Outdoor, S1-S2             | V AC                                 | IDU Powered Separately                   |
|                             | Voltage: Indoor - Outdoor, S2-S3             | V DC                                 | 12-24                                    |
|                             | Short-circuit Current Rating [SCCR]          | kA                                   | 5                                        |
|                             | Recommended Fuse/Breaker Size (Outdoor)      | A                                    | 40                                       |
| Indoor Unit                 | Recommended Wire Size [Indoor - Outdoor]     | AWG                                  | 14                                       |
|                             | MCA                                          | A                                    | 9.3                                      |
|                             | Fan Motor Output                             | W                                    | 750                                      |
|                             | Airflow Rate at Cooling, Dry                 | CFM                                  | 1,155, 1,400, 1,650                      |
|                             | Airflow Rate at Cooling, Wet                 | CFM                                  | 1,155, 1,400, 1,650                      |
|                             | Airflow Rate at Heating, Dry                 | CFM                                  | 1,225, 1,485, 1,750                      |
|                             | Sound Pressure Level [Cooling]               | dB (A)                               | 48, 55, 56                               |
|                             | Sound Pressure Level [Heating]               | dB (A)                               | 48, 55, 56                               |
|                             | External Static Pressure                     | in.WG                                | 0.30, 0.50, 0.80                         |
|                             | Drain Pipe Size O.D.                         | inch [mm]                            | 3/4 [19.05]                              |
|                             | External Finish Color                        |                                      | 6.2PB 9/0.9                              |
|                             | Unit Dimensions (W x D x H)                  | inch x inch x inch<br>[mm x mm x mm] | 25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511] |
|                             | Package Dimensions (W x D x H)               | inch x inch x inch<br>[mm x mm x mm] | 26 x 28-3/4 x 66 [660 x 730 x 1,675]     |
|                             | Unit Weight                                  | lbs [kg]                             | 176 [80]                                 |
|                             | Package Weight                               | lbs [kg]                             | 200 [91]                                 |
|                             | Fan Motor Type                               |                                      | DC Motor                                 |
| IDU Operating Temp. Range   | Cooling Intake Air Temp [Maximum / Minimum]  | °FDB, °FWB / °FDB, °FWB              | 90, 73 / 66, 59                          |
|                             | Heating Intake Air Temp [Maximum / Minimum]  | °FDB                                 | 82 / 50                                  |

## NOTES

<sup>1</sup>Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

<sup>2</sup>Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

<sup>3</sup>Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

<sup>4</sup>Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

<sup>5</sup>Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)

\* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

\*\* Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode and automatically restarts at these temperatures.

# SPECIFICATIONS: SVZ-AP60NL & SUZ-AK60NL

|                           |                                                            |                                      |                                                   |
|---------------------------|------------------------------------------------------------|--------------------------------------|---------------------------------------------------|
| Outdoor Unit              | MCA                                                        | A                                    | 38                                                |
|                           | MOCP                                                       | A                                    | 67                                                |
|                           | Fan Motor Output                                           | W                                    | 213+213                                           |
|                           | Airflow Rate Cooling                                       | CFM                                  | 4,020                                             |
|                           | Airflow Rate Heating                                       | CFM                                  | 4,020                                             |
|                           | Defrost Method                                             |                                      | Reverse Cycle                                     |
|                           | Coating on Heat Exchanger (Bluefin, Sea Coast)             |                                      | Yes, Yes                                          |
|                           | Sound Pressure Level, Cooling <sup>1</sup>                 | dB (A)                               | 60                                                |
|                           | Sound Pressure Level, Heating <sup>2</sup>                 | dB (A)                               | 62                                                |
|                           | Compressor Type                                            |                                      | Twin Rotary                                       |
|                           | Compressor Model                                           |                                      | MRK53FFJMC-L                                      |
|                           | Compressor Oil [Type // Charge]                            | Type // oz                           | RM68EH // 60                                      |
|                           | External Finish Color                                      |                                      | Munsell 3Y 7.8/1.1                                |
|                           | Base Pan Heater                                            |                                      | Not applicable                                    |
|                           | Unit Dimensions (W x D x H)                                | inch x inch x inch<br>[mm x mm x mm] | 41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]    |
|                           | Package Dimensions (W x D x H)                             | inch x inch x inch<br>[mm x mm x mm] | 42-15/16 x 17-3/4 x 58-5/16 [1,090 x 450 x 1,480] |
|                           | Unit Weight                                                | lbs [kg]                             | 264.60 [120]                                      |
|                           | Package Weight                                             | lbs [kg]                             | 291 [132]                                         |
| ODU Operating Temp. Range | Cooling Intake Air Temp [Maximum / Minimum*]               | °FDB                                 | 115 / 23                                          |
|                           | Heating Intake Air Temp [Maximum / Minimum]                | °FDB, °FWB / °FDB, °FWB              | 70, 59 / -4, -4                                   |
|                           | Heating Thermal Lock-out / Re-start Temperatures**         | °FDB                                 | -13 / -4                                          |
| Refrigerant               | Type                                                       |                                      | R454B                                             |
|                           | Pre-Charged Refrigerant Amount                             | lbs, oz                              | 11, 7                                             |
|                           | Maximum Pre-Charged Piping Length                          | ft [m]                               | 100 [30]                                          |
|                           | Additional Refrigerant Charge Per Additional Piping Length | oz/ft                                | 0.6                                               |
| Piping                    | Gas Pipe Size O.D. [Flared]                                | inch [mm]                            | 3/4 [19.05]                                       |
|                           | Liquid Pipe Size O.D. [Flared]                             | inch [mm]                            | 3/8 [9.52]                                        |
|                           | Maximum Piping Length                                      | ft [m]                               | 245 [75]                                          |
|                           | Maximum Height Difference                                  | ft [m]                               | 100 [30]                                          |
|                           | Maximum Number of Bends                                    |                                      | 15                                                |

## NOTES

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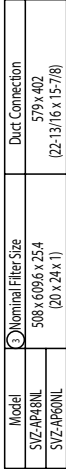
# INDOOR UNIT ACCESSORIES: SVZ-AP60NL

|                                         |                                                                                   |                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|-------------------|
| Wireless Remote Controller              | Lockdown Bracket for Wireless Handheld Remote Controllers                         | RCMKP1CB          |
|                                         | RedLINK Wireless Remote Controller                                                | MHK2              |
|                                         | Universal Wireless MA Handheld Remote Controller                                  | PAR-FL32MA-E      |
|                                         | Universal Wireless Receiver for PAR-FL32MA-E                                      | PAR-FA32MA-W      |
| Power Supplies & Auxiliary Components   | 3-Pin Wiring Harness                                                              | PAC-715AD         |
|                                         | 5-Pin Wiring Harness                                                              | PAC-725AD         |
|                                         | ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models                      | PAC-740           |
| Electric Kit Heats                      | 10kW Electric Heater                                                              | EH10-MPA-LB       |
|                                         | 15kW Electric Heater                                                              | EH15-MPAS-LB      |
|                                         | 17kW Electric Heater                                                              | EH17-MPAS-LB      |
|                                         | 19kW Electric Heater                                                              | EH19-MPAS-LB      |
| Control Interface                       | Airzone Wired Blueface Controller Black                                           | AZZBSBLUEZEROCN   |
|                                         | Airzone Wired Blueface Controller White                                           | AZZBSBLUEZEROCB   |
|                                         | Airzone Wired Lite Controller White                                               | AZZBSLITECB       |
|                                         | Airzone Wireless Lite Controller White                                            | AZZBSLITERB       |
|                                         | Airzone Wireless Think Controller Black                                           | AZZBSTHINKRN      |
|                                         | Airzone Wireless Think Controller White                                           | AZZBSTHINKRB      |
|                                         | IT Extender for kumo station                                                      | PAC-WHS01IE-E     |
|                                         | kumo station for the Comfort app                                                  | PAC-WHS01HC-E     |
|                                         | Operation and Error Status Output Adapter <sup>1</sup>                            | PAC-SF40RM-E      |
|                                         | Procon BACnet and Modbus Interface                                                | PAC-UKPRC001-CN-1 |
|                                         | Thermostat Interface for 3rd Party Thermostats                                    | PAC-US445CN-1     |
|                                         | Wireless Interface Adapter for the Comfort app                                    | PAC-USWHS002-WF-2 |
|                                         |                                                                                   |                   |
| Remote Sensor                           | Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models     | PAC-USSEN002-FM-1 |
|                                         | Wall Mount Remote Temperature Sensor                                              | PAC-SE41TS-E      |
|                                         | Wireless temperature and humidity sensor for the Comfort app                      | PAC-USWHS003-TH-1 |
| Condensate                              | Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended | X87-721           |
|                                         | Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor                 | X87-835           |
|                                         | Blue Diamond Sensor Extension Cable 15 Ft                                         | C13-103           |
|                                         | Refco Condensate Pump 100-240 VAC up to 120000 BTUH                               | COMBI             |
|                                         | Sauermann Condensate Pump                                                         | SI30-230          |
| Wired Remote Controller                 | Deluxe Wired MA Remote Controller                                                 | PAR-42MAAUB       |
|                                         | Simple Direct Wired Remote Controller                                             | PAC-SDW01RC-1     |
|                                         | Simple MA Remote Controller                                                       | PAC-YT53CRAU-J    |
|                                         | Touch MA Wired Remote Controller                                                  | PAR-CT01MAU-SB    |
| Disconnect Switch                       | 30A600VUL fits 2 X 4 utility box - Black                                          | TAZ-MS303         |
|                                         | 30A600VUL fits 2 X 4 utility box - White                                          | TAZ-MS303W        |
| Power Supplies and Auxiliary Components | Backup Heat Relay Kit Adapter for CN24 or CN152 Connector                         | CN24RELAY-KIT-CM3 |
| Control Wire                            | 202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel                        | CW2042S2-100      |
|                                         | 202PR shielded 1PR plenum wire for Airzone 500 ft reel                            | CW2042S2-500      |
| Downflow Kit                            | Condensate Management Kit for downflow installation                               | CMA-1             |
| Lineset                                 | 15 x 3/8 x 15 x 3/4 Lineset Twin-Tube Insulation                                  | MPLS383412T-15    |
|                                         | 50 x 3/8 x 50 x 3/4 Lineset Twin-Tube Insulation                                  | MPLS383412T-50    |
| Electric Heat Lockout                   | Electric Heat Lockout                                                             | ETC-211020-MIT    |
| Terminal Block                          | Separate Terminal Power Block                                                     | SPTB1             |
| NOTES                                   |                                                                                   |                   |

## OUTDOOR UNIT ACCESSORIES: SUZ-AK60NL

|                                       |                                                     |                                        |
|---------------------------------------|-----------------------------------------------------|----------------------------------------|
| Control/Service Tool                  | ControlService Tool                                 | PAC-SK52ST                             |
|                                       | M- & P-Series Maintenance Tool Cable Set            | M21EC0397                              |
|                                       | Maintenance Tool Interface                          | PAC-USCMS-MN-1                         |
| Stand                                 | 18 Dual Fan Stand                                   | QSMS1802M                              |
|                                       | 24 Dual Fan Stand                                   | QSMS2402M                              |
|                                       | Condenser Wall Bracket                              | QSWB2000M-1                            |
|                                       | Condenser Wall Bracket - Stainless Steel Finish     | QSWBSS                                 |
|                                       | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | DSD-400P                               |
|                                       | Outdoor Unit Stand 12 High                          | QSMS1202M                              |
| Optional Defrost Heater               | Optional Defrost Heater                             | PAC-SL11BH-E                           |
| Snow/Rain Diverter                    | SnowRain Diverter                                   | SRD-5                                  |
| Wind Baffle                           | Front Wind Baffle                                   | WB-PA3 (two pieces are required)       |
|                                       | Rear Wind Baffle                                    | WB-RE6                                 |
|                                       | Side Advanced Wind Baffle                           | WB-SD6                                 |
| Mounting Pad                          | Condensing Unit Mounting Pad 24 x 42 x 3            | ULTRILITE2                             |
| Hail Guards                           | Hail Guard                                          | HG-A2                                  |
| Mini-Split Wire                       | 14 Gauge 4 wire Armored MiniSplit Cable250 ft roll  | SW144-250                              |
|                                       | 14 Gauge 4 wire Armored MiniSplit Cable50 ft roll   | SW144-50                               |
|                                       | 14 Gauge 4 wire MiniSplit Cable250 ft roll          | S144-250                               |
|                                       | 14 Gauge 4 wire MiniSplit Cable50 ft roll           | S144-50                                |
| Centralized Drain Pan                 | Centralized Drain Pan                               | PAC-SH97DP-E                           |
| Power Supplies & Auxiliary Components | 3-Pin Wiring Harness                                | PAC-715AD                              |
|                                       | 5-Pin Wiring Harness                                | PAC-725AD                              |
| Drain Socket                          | Drain Socket                                        | PAC-SG61DS-E                           |
| Air Outlet Guide                      | Air Outlet Guide 1 Piece                            | PAC-SH96SG-E (two pieces are required) |
| M-NET Converter                       | M-Net Interface for P-Series                        | PAC-SJ95MA-E                           |
| NOTES                                 |                                                     |                                        |

### INDOOR UNIT DIMENSIONS: SVZ-AP60NL



| Model      | A        | B             | C              | D              | E             | F               | G             | H              | J             | (1) Gas Pipe | (2) Liquid Pipe |
|------------|----------|---------------|----------------|----------------|---------------|-----------------|---------------|----------------|---------------|--------------|-----------------|
| SUZ-APARNL | 635 (25) | 579 (22·3/16) | 484·6 (19·1/8) | 317·5 (12·1/2) | 1511 (61·9/2) | 798·5 (31·7/16) | 1033 (41·1/2) | 853·5 (33·5/8) | 563 (22·3/16) | 13·868 [5/8] |                 |
| SUZ-APGNL  |          |               |                |                |               |                 |               |                |               | 19·07 [3/4]  | 9·52 (3/8)      |

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