



# THE WALL-MOUNT™ SASO AIR CONDITIONERS

**Models K36A & K60A**  
**Models K36L & K60L**

**Right-Side Control Panel**  
**Left-Side Control Panel**  
**37,500 to 57,500 Btuh**  
**10.99 to 16.85 kW**

**FOR EXPORT**  
**USE ONLY**

The Bard Wall-Mount Air Conditioner is a self contained energy efficient system, which is designed to offer maximum indoor comfort at a minimal cost without using valuable indoor floor space or outside ground space.

This unit is the ideal product for versatile applications such as: new construction, modular offices, school modernization, telecommunication structures, portable structures or correctional facilities. Factory installed accessories are available to meet specific job requirements.

## Engineered Features

### Aluminum Finned Copper Coils:

Grooved tubing and enhanced louvered fin for maximum heat transfer and energy efficiency. Coated coils available.

### Twin Blowers:

Move air quietly. Most models feature multispeed blower motors providing airflow adjustment for high and low static operation. Motor overload protection is standard on all models.

### R-410A Refrigerant:

Designed with R-410A (HFC) non-ozone depleting refrigerant in compliance with the Montreal protocol.

### Phase Rotation Monitor:

Standard on all 3 phase scroll compressors. Protects against reverse rotation if power supply is not properly connected. Not required on reciprocating compressors.

### Galvanized 20 Gauge Zinc Coated Steel Cabinet:

Cleaned, rinsed, sealed and dried before the polyurethane primer is applied. The cabinet is handsomely finished with a baked on textured enamel, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03. Stainless Steel cabinets are also available.

### Foil Faced Insulation:

Standard on all units.

### Full Length Mounting Brackets:

Built into cabinet for improved appearance and easy installation.

**NOTE:** Bottom mounting bracket included to assist in installation.

### Electrical Components:

Are easily accessible for routine inspection and maintenance through a side, service panel opening. Features a lockable, hinged access cover to the circuit breaker or toggle disconnect switch. Extreme Duty Door is standard and Moderate Duty Door is optional.

### Electric Heat Strips:

Features an automatic limit and thermal cut-off safety control. Heater packages are factory installed.

### Filter Access Panel:

Separate panel provides easy access for filter change.

### Two Inch, Pleated Air Filters:

Are standard equipment.

### Condenser Fan and Motor

#### Shroud Assembly:

Slides out for easy access. Fan motor is a sealed motor.

### Built-in Circuit Breakers:

Standard on all versions of single (230/208 volt) equipment. Single phase models pending. Toggle disconnects are standard on all versions of three phase (400 volt) equipment.

### Slope Top:

Standard feature for water run-off.

### Top Rain Flashing:

Standard feature on all models.

### Freezestat:

Standard on all Models.

### Liquid Line Filter Drier:

Standard on all units. Protects system against moisture.



**K\*\*L Left-Hand Unit Shown**

### Compressor Control Module:

Standard on all units. Built-in off-delay timer adjustable from 30 seconds to 5 minutes. 2-minute on-delay if power interrupt. 120-second bypass for low pressure control, and both soft and manual lockouts for high and low pressure controls. Alarm output for alarm relay.

### High & Low Pressure Switches are Auto-Reset:

Standard on all units. Built-in lockout circuit resets from the room thermostat. Provides commercial quality protection to the compressor.

### Low Ambient:

Standard on all units.

### Alarm Relay:

Standard on all units.

- Tested in accordance with SASO 2874/2016, SASO 2681, 2682.
- Intertek ETL Tested to Standard IEC 60335-2-40:2002 (Fourth Edition) + A1:2005 (incl. Corr. 1:2006) + A2:2005 in conjunction with IEC 60335-1:2010 (Fifth Edition)

Bard is an  
ISO 9001:2015  
Certified Manufacturer

## Certified Capacity and Efficiency Ratings, Full Load Operation

| MODELS                                | K36A2/K36L2    | K60A2/K60L2    |
|---------------------------------------|----------------|----------------|
| Tier 1, Cooling BTUH (kW), 35-27/19 ① | 36,500 (10.69) | 56,500 (16.55) |
| EER ②                                 | 11.5           | 11.5           |
| Rated CFM                             | 1100           | 1650           |
| Tier 3, Cooling BTUH (kW), 46-29/19 ① | 28,500 (8.35)  | 50,000 (14.65) |
| EER ②                                 | 8.28           | 8.28           |
| Rated CFM                             | 1100           | 1650           |
| Cooling BTUH (kW), 52-27/19           | 26,500         | 45,500 (13.33) |
| EER                                   | 7.2            | 7.0            |
| Rated CFM                             | 1100           | 1650           |
| Cooling BTUH (kW), 55-27/19 ①         | 24,500 (7.18)  | 43,000 (12.60) |
| EER ②                                 | 6.5            | 6.2            |
| Rated CFM                             | 1100           | 1650           |

① Tested in accordance with SASO 2874/2016, SASO 2681, 2682.

② EER = Energy Efficiency Ratio – BTU/WATT efficiency.

## Specifications 3-Ton through 5-Ton

| MODELS                             | K36A2-N<br>K36L2-N | K60A2-N<br>K60L2-N |
|------------------------------------|--------------------|--------------------|
| Electrical Rating                  | 400-60-3           | 400-60-3           |
| Operating Voltage Range            | 360-440 VAC        | 360-440 VAC        |
| <b>Compressor</b>                  |                    |                    |
| Voltage                            | 400-3              | 400-3              |
| Rated Load Amps                    | 4.9                | 7.5                |
| Branch Circuit — Selection Current | 5.5                | 8.0                |
| Lock Rotor Amps                    | 38                 | 66                 |
| Compressor Type                    | Reciprocating      | Scroll             |
| <b>Fan Motor</b>                   |                    |                    |
| HP                                 | 1/3                | 1/2                |
| Volts                              | 400-1              | 400-1              |
| Full Load Amps                     | 1.3                | 2.3                |
| CFM                                | 2700               | 3000               |
| <b>Blower Motor</b>                |                    |                    |
| HP                                 | 1/2                | 1/2                |
| Volts                              | 400-1              | 400-1              |
| Full Load Amps                     | 0.6                | 1.3                |
| <b>Shipping Weight --LBS.</b>      | 485                | 530                |

+ 75°C Wire

++ HACR type circuit breaker

## Electrical Specifications – Circuit Ampacity

| MODEL                | Rated Volts,<br>Hertz & Phase | No. Field Power<br>Circuits | Single Circuit                   |                                             |                               |                     |
|----------------------|-------------------------------|-----------------------------|----------------------------------|---------------------------------------------|-------------------------------|---------------------|
|                      |                               |                             | ①<br>Minimum Circuit<br>Ampacity | ②<br>Maximum External<br>Fuse or Ckt. Brkr. | ③<br>Field Power<br>Wire Size | ③<br>Ground<br>Wire |
| K36A2/L2-NOZ<br>-N06 | 400-60-3                      | 1                           | 8.2                              | 10                                          | 14                            | 14                  |
|                      |                               | 1                           | 9.8                              | 15                                          | 14                            | 14                  |
| K60A2/L2-NOZ<br>-N06 | 400-60-3                      | 1                           | 14.1                             | 20                                          | 12                            | 12                  |
|                      |                               | 1                           | 14.1                             | 20                                          | 12                            | 12                  |

① These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing.

② Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.

③ Based on 75C copper wire. All wiring must conform to the National Electrical Code and all local codes.

## Cooling Performance Table

| Model      | Return Air<br>(DB/WB)<br>③ | Cooling Capacity | 75°F<br>24°C | 80°F<br>27°C | 85°F<br>30°C | 90°F<br>32°C | 95°F<br>35°C | 100°F<br>38°C | 105°F<br>41°C | 110°F<br>43°C | 115°F<br>46°C | 120°F<br>49°C | 125°F<br>51.6°C | 131°F<br>55°C |
|------------|----------------------------|------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|
| <b>K36</b> | 75/62 F                    | Total Cooling    | 40200        | 37900        | 35900        | 33800        | 31800        | 30000         | 28200         | 26400         | 24700         | 23000         | 21800           | 20400         |
|            | 24/17 C                    | Sensible Cooling | 30400        | 29300        | 28300        | 27300        | 26500        | 25600         | 24800         | 24000         | 23400         | 22700         | 21200           | 19500         |
|            | 80/67 F                    | Total Cooling    | 42900        | 41300        | 39800        | 38200        | 36500        | 34900         | 33200         | 31500         | 29700         | 27900         | 26100           | 24100         |
|            | 27/20 C                    | Sensible Cooling | 29500        | 28700        | 28000        | 27300        | 26700        | 26000         | 25400         | 24800         | 24300         | 23700         | 23200           | 22500         |
|            | 85/72 F                    | Total Cooling    | 51100        | 48300        | 45700        | 43100        | 40600        | 38200         | 35800         | 33500         | 31200         | 29000         | 26900           | 24600         |
|            | 30/22 C                    | Sensible Cooling | 30200        | 29200        | 28200        | 27100        | 26200        | 25200         | 24200         | 23300         | 22400         | 21400         | 20600           | 19600         |
| <b>K60</b> | 75/62 F                    | Total Cooling    | 59000        | 56500        | 53900        | 51600        | 49200        | 47000         | 44900         | 42800         | 40900         | 38900         | 37100           | 35300         |
|            | 24/17 C                    | Sensible Cooling | 45200        | 44000        | 42700        | 41600        | 40500        | 39400         | 38400         | 37400         | 36400         | 35400         | 34500           | 33600         |
|            | 80/67 F                    | Total Cooling    | 63000        | 61500        | 59900        | 58300        | 56500        | 54800         | 53000         | 51100         | 49200         | 47200         | 45200           | 43200         |
|            | 27/20 C                    | Sensible Cooling | 43800        | 43100        | 42300        | 41600        | 40900        | 40100         | 39400         | 38600         | 37900         | 37100         | 36300           | 35500         |
|            | 85/72 F                    | Total Cooling    | 75100        | 71900        | 68800        | 65800        | 62800        | 60000         | 57200         | 54400         | 51700         | 49100         | 46500           | 43900         |
|            | 30/22 C                    | Sensible Cooling | 44900        | 43800        | 42500        | 41300        | 40100        | 38800         | 37600         | 36200         | 34900         | 33500         | 32100           | 30700         |

- ① Below 65°F, unit requires a factory or field installed low ambient control.
- ② Outdoor temperatures shown are measured at the condenser section air inlet.
- ③ Return air temperature °F.

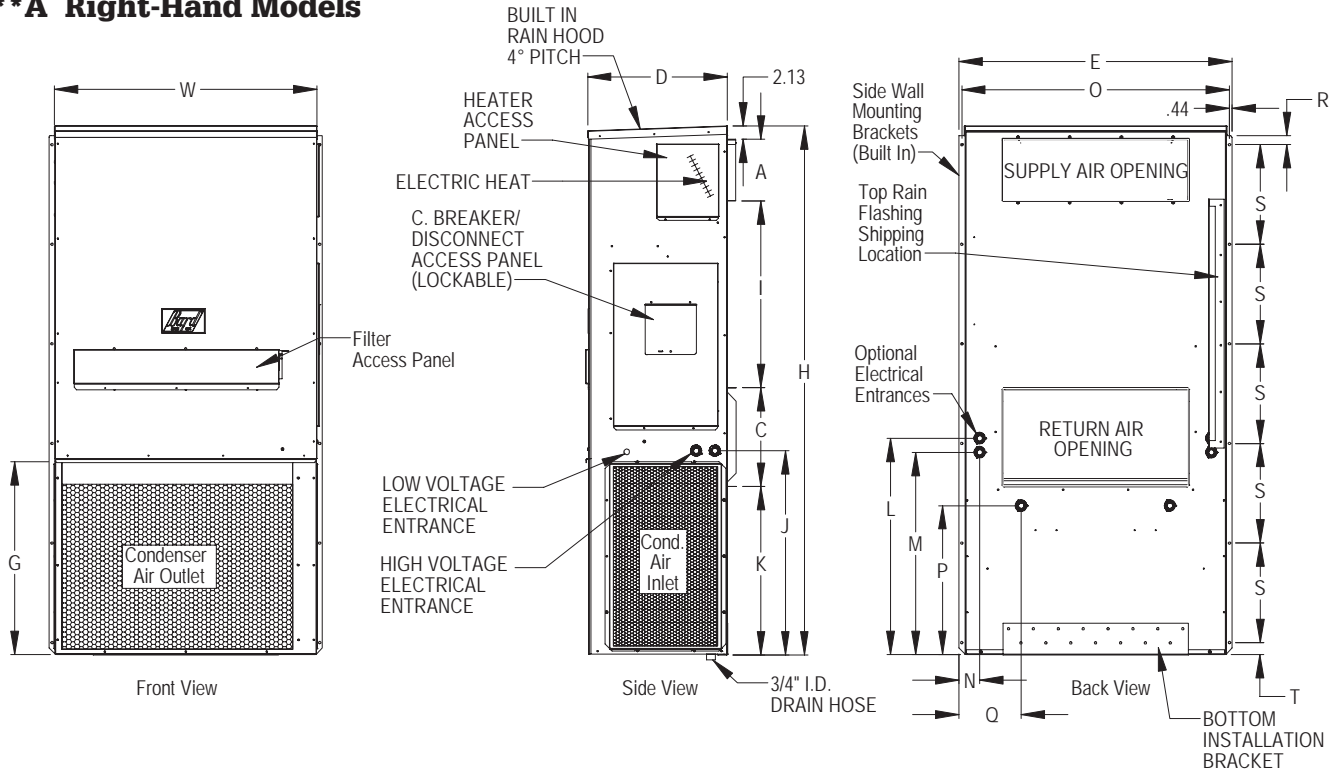
| <b>Capacity Multiplier Factors</b> |       |       |      |
|------------------------------------|-------|-------|------|
| <b>% of Rated Airflow</b>          | -10   | Rated | +10  |
| <b>Total BTUH</b>                  | 0.975 | 1.0   | 1.02 |
| <b>Sensible BTUH</b>               | 0.950 | 1.0   | 1.05 |

## Dimensions of Basic Unit for Architectural & Installation Requirements - Inches (mm)

| MODEL         | WIDTH (W)        | DEPTH (D)       | HEIGHT (H)       | SUPPLY        |                | RETURN         |                |                 |                |                |                 |                |                 |                 |              |                 |                |                |              |                |                |
|---------------|------------------|-----------------|------------------|---------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|--------------|-----------------|----------------|----------------|--------------|----------------|----------------|
|               |                  |                 |                  | A             | B              | C              | B              | E               | G              | I              | J               | K              | L               | M               | N            | O               | P              | Q              | R            | S              | T              |
| <b>K36A/L</b> | 42.075<br>(1069) | 22.432<br>(570) | 84.875<br>(2156) | 9.88<br>(251) | 29.88<br>(759) | 15.88<br>(403) | 29.88<br>(759) | 43.88<br>(1115) | 31.66<br>(804) | 30.00<br>(762) | 32.68<br>(830)  | 26.94<br>(684) | 34.69<br>(881)  | 32.43<br>(824)  | 3.37<br>(86) | 43.00<br>(1092) | 23.88<br>(607) | 10.00<br>(254) | 1.44<br>(37) | 16.00<br>(406) | 1.88<br>(48)   |
| <b>K60A/L</b> | 42.075<br>(1069) | 22.432<br>(570) | 93.000<br>(2362) | 9.88<br>(251) | 29.88<br>(759) | 15.88<br>(403) | 29.88<br>(759) | 43.88<br>(1115) | 37.00<br>(940) | 30.00<br>(762) | 40.81<br>(1037) | 35.06<br>(891) | 42.81<br>(1087) | 40.56<br>(1030) | 3.37<br>(86) | 43.00<br>(1092) | 31.00<br>(787) | 10.00<br>(254) | 1.44<br>(37) | 16.00<br>(406) | 10.00<br>(254) |

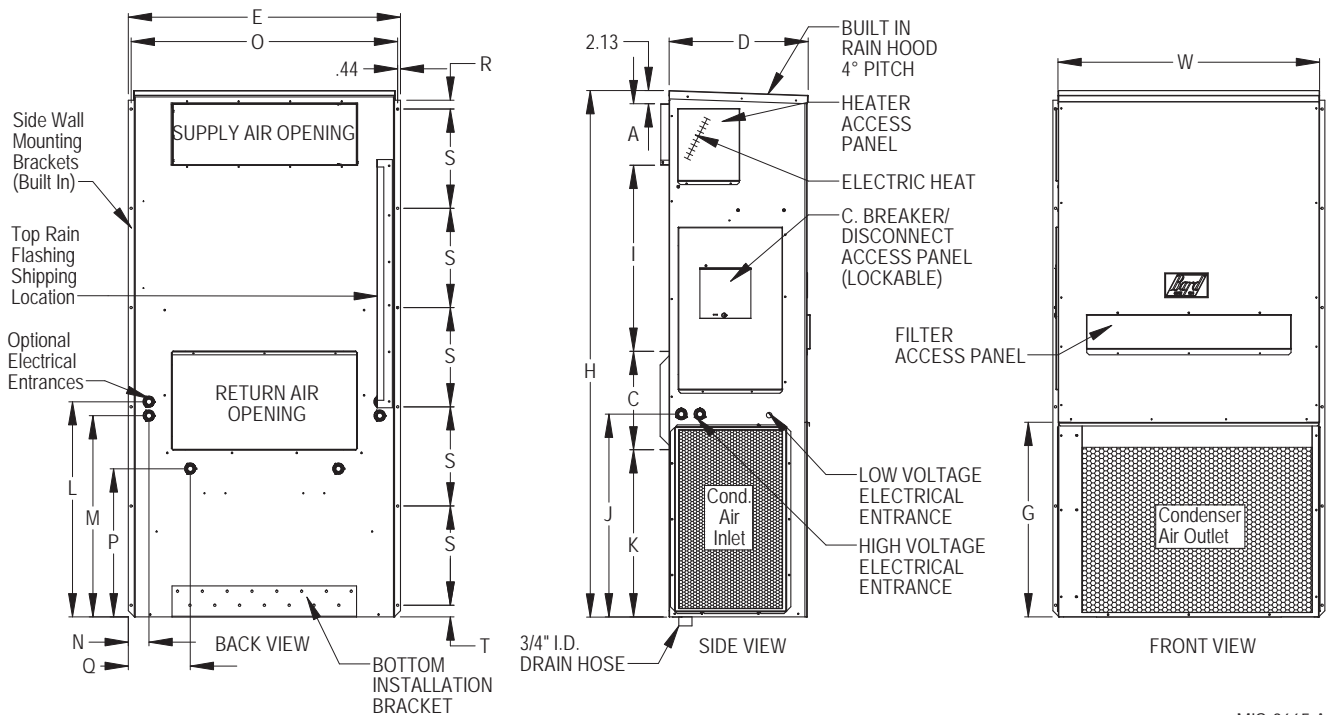
All dimensions are in inches. Dimensional drawings are not to scale.

### K\*\*A Right-Hand Models



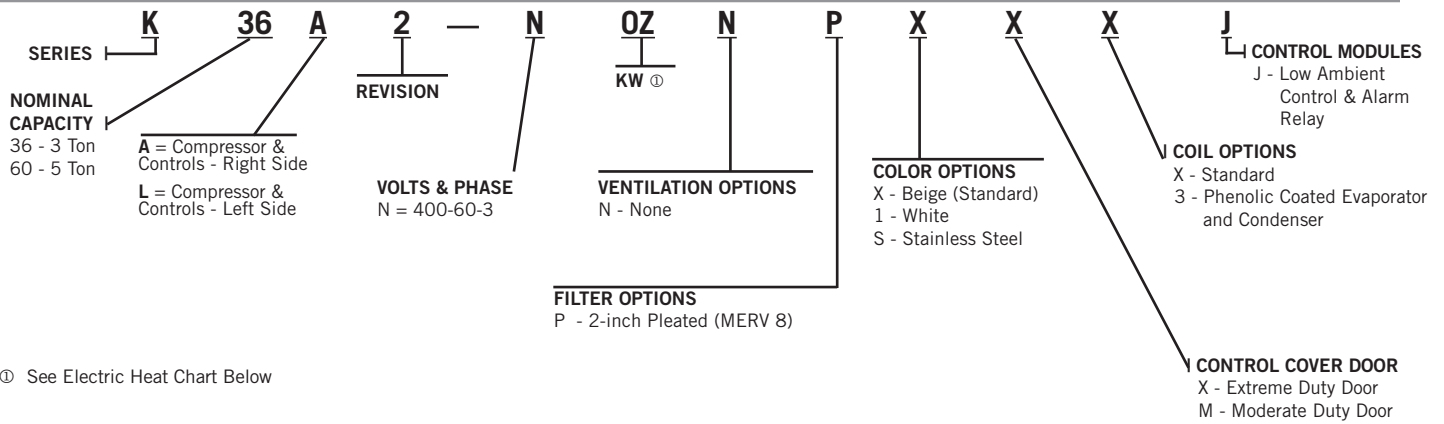
### K\*\*L Left-Hand Models

MIS-3666 A



MIS-3665 A

## Air Conditioning Wall-Mount Model Nomenclature



① See Electric Heat Chart Below

## Electric Heat Table – Refer to Electrical Specifications for Availability by Unit Model

| NOMINAL KW | At 400V ② |              |        |
|------------|-----------|--------------|--------|
|            | KW        | 3-Phase Amps | Btuh   |
| 06         | 6.25      | 9.0          | 21,331 |

② These electric heaters are available in 400V units only.



Bard Manufacturing Company, Inc.  
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www.bardhvac.com

Due to our continuous product improvement policy, all specifications subject to change without notice.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

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Supersedes S3498-1217  
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