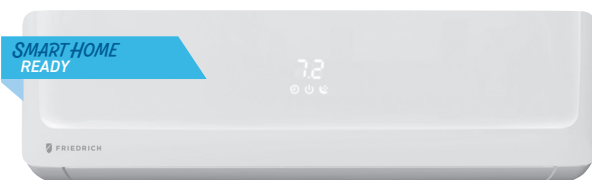


|              |              |               |
|--------------|--------------|---------------|
| PURCHASER    | P.O. #       | DATE          |
| PROJECT      | LOCATION     |               |
| ENGINEER     | ARCHITECT    |               |
| SUBMITTED BY | FOR APPROVAL | FOR REFERENCE |

| ITEM | PLAN DESIGNATION | QUANTITY | COOLING BTU/H | VOLTAGE | FRIEDRICH MODEL |
|------|------------------|----------|---------------|---------|-----------------|
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |

### FLOATING AIR PRO & SELECT INDOOR WALLMOUNT UNITS

FEATURING **FastPro®** DESIGN



#### Built-in Wi-Fi for control anytime, anywhere

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



WIRELESS REMOTE  
WITH THE ABILITY  
TO CHANGE TO A  
COOL-ONLY REMOTE

#### ADDITIONAL WALLMOUNT FEATURES:

- Fast Pro®** design for the fastest access for maintenance of any wall-mounted ductless system
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- Natural air flow
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- Hidden display (only visible during operation)

#### FLOATING AIR PRO SYSTEM FEATURES:

- Precision Inverter®** technology (variable speed compressor)
- Soft start compressor
- BLDC motor
- ENERGY STAR® qualified models
- R-454B GWP of 466**
- Surge Cool/Heat
- Ultra quiet operation
- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)**
- Low temperature compressor start-up protection



#### FLOATING AIR SELECT SYSTEM FEATURES:

- Inverter technology (variable speed compressor)
- Soft start compressor
- ENERGY STAR® qualified models
- BLDC motor
- R-32 GWP of 675
- Surge Cool/Heat
- Ultra quiet operation
- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -5°F (Heating mode)





Product Specification Sheet

FLOATING AIR® SELECT | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS

| System Model No. | FSHW091A   | FSHW121A   | FSHW183A   | FSHW243A   |
|------------------|------------|------------|------------|------------|
| Indoor Model     | FAHSW09A1A | FAHSW12A1A | FAHFW18A3A | FAHFW24A3A |
| Outdoor Model    | FSHSR09B1B | FSHSR12B1B | FSHSR18B3B | FSHSR24B3B |

SPECIFICATIONS

|                                     |         |                 |                 |                 |                 |
|-------------------------------------|---------|-----------------|-----------------|-----------------|-----------------|
| Capacity Cooling (Rated)            | Btu     | 9,000           | 12,000          | 18,000          | 24,000          |
| Capacity Cooling (Min.-Max.)        | Btu     | 3,600-10,000    | 4,000-13,000    | 6,500-19,000    | 8,000-25,000    |
| Capacity Heating (Rated) @ 47°F     | Btu     | 9,500           | 12,000          | 18,000          | 24,000          |
| Capacity Heating (Rated) @ 17°F     | Btu     | 6,800           | 8,800           | 14,800          | 21,000          |
| Capacity Heating (Min.-Max.)        | Btu     | 3,600-10,000    | 4,000-13,000    | 6,500-19,000    | 8,000-25,000    |
| Capacity Heating (M1 Calc) @ 5°F    | Btu     | 6,800           | 8,800           | 15,000          | 18,500          |
| Capacity Heating (Min.-Max.) @ -4°F | Btu     | 4,500           | 5,800           | 8,200           | 13,000          |
| Sensible Heat Ratio                 |         | 78.7%           | 70.1%           | 74.2%           | 70%             |
| COP                                 |         | 4.1             | 3.4             | 3.9             | 3.3             |
| HSPF2                               |         | 9.0             | 8.5             | 9.8             | 8.5             |
| SEER2                               |         | 20.0            | 18.0            | 21.0            | 19.5            |
| EER2                                |         | 12.5            | 10.2            | 11.95           | 10.6            |
| ENERGY STAR®                        |         | NO              | NO              | NO              | NO              |
| Moisture Removal                    | Pts/h   | 1.9             | 2.5             | 3.2             | 4.6             |
| Airflow (High/Med/Low/Quiet)        | CFM     | 382/341/294/247 | 394/364/311/252 | 647/588/482/382 | 705/647/558/441 |
| Sound Rating - Indoor               |         |                 |                 |                 |                 |
| (Max/High/Med/Low/Quiet)            | dB-A    | 42/39/37/35/32  | 42/39/37/35/32  | 48/45/41/39/36  | 50/48/43/41/39  |
| Sound Rating - Outdoor              | dB-A    | 51              | 51              | 56              | 60              |
| Operating Range                     |         |                 |                 |                 |                 |
| Indoor                              | °F      | (45°F - 81°F)   | (45°F - 81°F)   | (45°F - 81°F)   | (45°F - 81°F)   |
| (Heating) Outdoor                   | °F      | (-4°F - 75°F)   | (-4°F - 75°F)   | (-4°F - 75°F)   | (-4°F - 75°F)   |
| Operating Range                     |         |                 |                 |                 |                 |
| Indoor                              | °F      | (45°F - 81°F)   | (45°F - 81°F)   | (45°F - 81°F)   | (70°F - 90°F)   |
| (Cooling) Outdoor                   | °F      | (5°F - 118°F)   | (5°F - 118°F)   | (5°F - 118°F)   | (5°F - 118°F)   |
| Est. Yearly Operating Cost          | U.S. \$ | \$65            | \$106           | \$135           | \$203           |

ELECTRICAL DATA

|                               |            |              |              |                  |                  |
|-------------------------------|------------|--------------|--------------|------------------|------------------|
| Power Source                  | V-Hz-Phase | 115V-60Hz-1P | 115V-60Hz-1P | 230/208V-60Hz-1P | 230/208V-60Hz-1P |
| Min. Ampacity                 | A          | 14.6         | 15.4         | 14.5             | 21.0             |
| Cooling Watts                 | W          | 720          | 1176         | 1506             | 2264             |
| Cooling Amps                  | A          | 6.7          | 10.7         | 6.4              | 10.0             |
| Heating Watts                 | W          | 679          | 1034         | 1349             | 2132             |
| Heating Amps                  | A          | 6.2          | 9.6          | 8.1              | 9.5              |
| Max. TD Fuse/Breaker          | A          | 25           | 25           | 20               | 35               |
| Power and Communication Cable | No. x AWG  | 4 x 14AWG    | 4 x 14AWG    | 4 x 14AWG        | 4 x 14AWG        |

REFRIGERATION SYSTEM

|                         |     |                 |                 |                 |                 |
|-------------------------|-----|-----------------|-----------------|-----------------|-----------------|
| Refrigerant             |     | R-32            | R-32            | R-32            | R-32            |
| Compressor Type         |     | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter |
| Connections             |     | Flared          | Flared          | Flared          | Flared          |
| Liquid Line O.D.        | in. | 1/4             | 1/4             | 1/4             | 3/8             |
| Suction Line O.D.       | in. | 3/8             | 3/8             | 1/2             | 5/8             |
| Refrigerant Charge      | oz. | 21.2            | 21.9            | 45.9            | 47.6            |
| Factory Precharge       | ft. | 25              | 25              | 25              | 25              |
| Min. / Max. Line Length | ft. | 10' / 66'       | 10' / 66'       | 10' / 100'      | 10' / 100'      |
| Max. Height Difference  | ft. | 50'             | 50'             | 50'             | 50'             |

DIMENSIONS & WEIGHT

|                       |      |                             |                             |                              |
|-----------------------|------|-----------------------------|-----------------------------|------------------------------|
| Indoor Unit           |      |                             |                             |                              |
| W x H x D             | in.  | 33 7/8" x 11 3/16" x 8 1/2" | 45 1/8" x 13 1/8" x 10"     |                              |
| Net Weight            | lbs. | 22                          | 22                          | 34.2                         |
| Shipping Weight       | lbs. | 26.5                        | 26.5                        | 39.7                         |
| Outdoor Unit          |      |                             |                             |                              |
| W x H x D             | in.  | 31 7/8" x 23" x 11"         | 33 7/8" x 25 1/2" x 12 1/8" | 35 7/16" x 29 1/2" x 13 3/8" |
| Net Weight            | lbs. | 52.9                        | 57.3                        | 75                           |
| Shipping Weight       | lbs. | 57.3                        | 61.7                        | 82.7                         |
| Total Net Weight      | lbs. | 74.9                        | 79.3                        | 109.2                        |
| Total Shipping Weight | lbs. | 83.8                        | 88.2                        | 122.4                        |

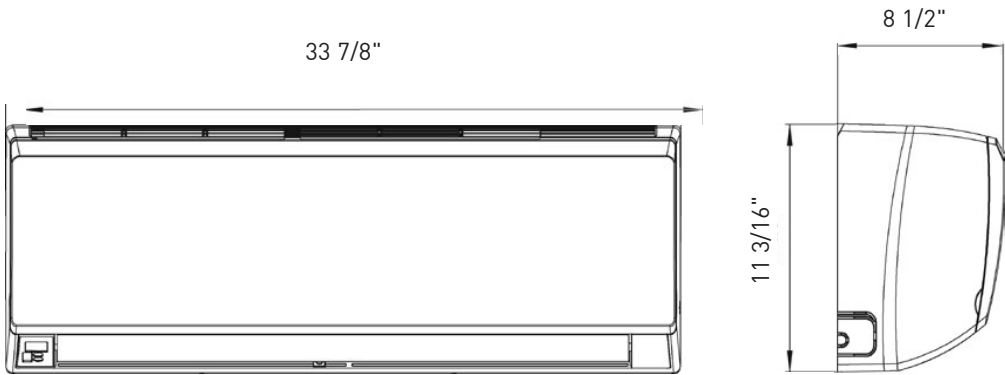
Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh. For more information, visit -[www.ftc.gov/energy](http://www.ftc.gov/energy).

CERTIFICATIONS

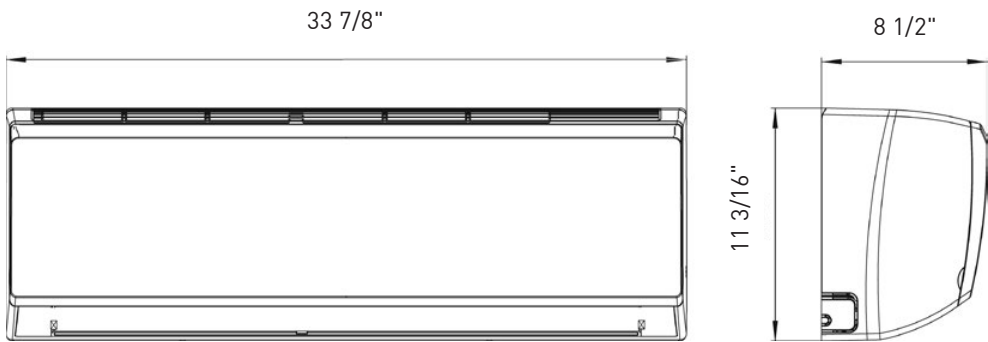


**DIMENSIONAL DRAWINGS**

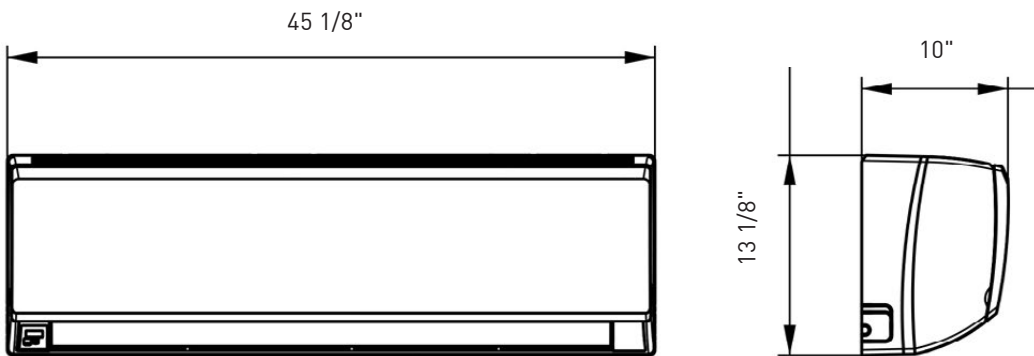
**INDOOR UNIT / FAHSW09A1A**



**INDOOR UNIT / FAHSW12A1A**

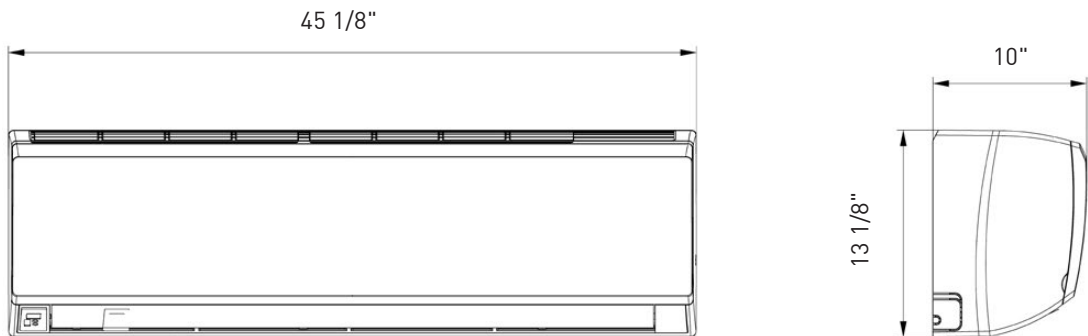


**INDOOR UNIT / FAHFW18A3A**

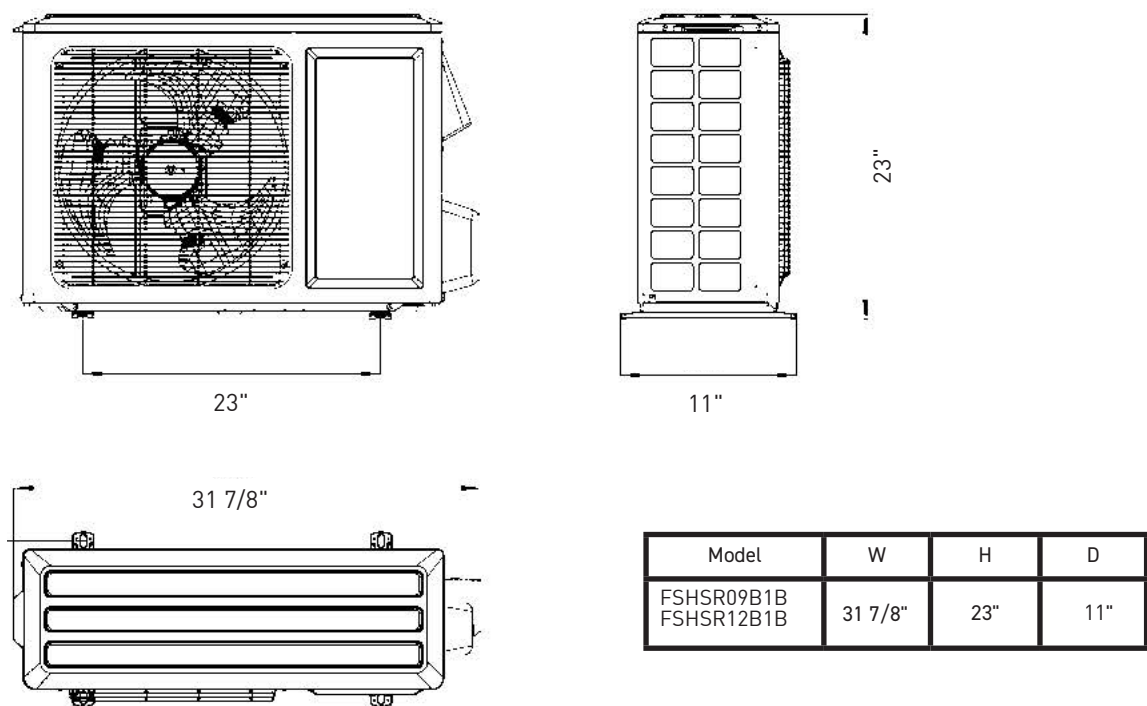


**DIMENSIONAL DRAWINGS**

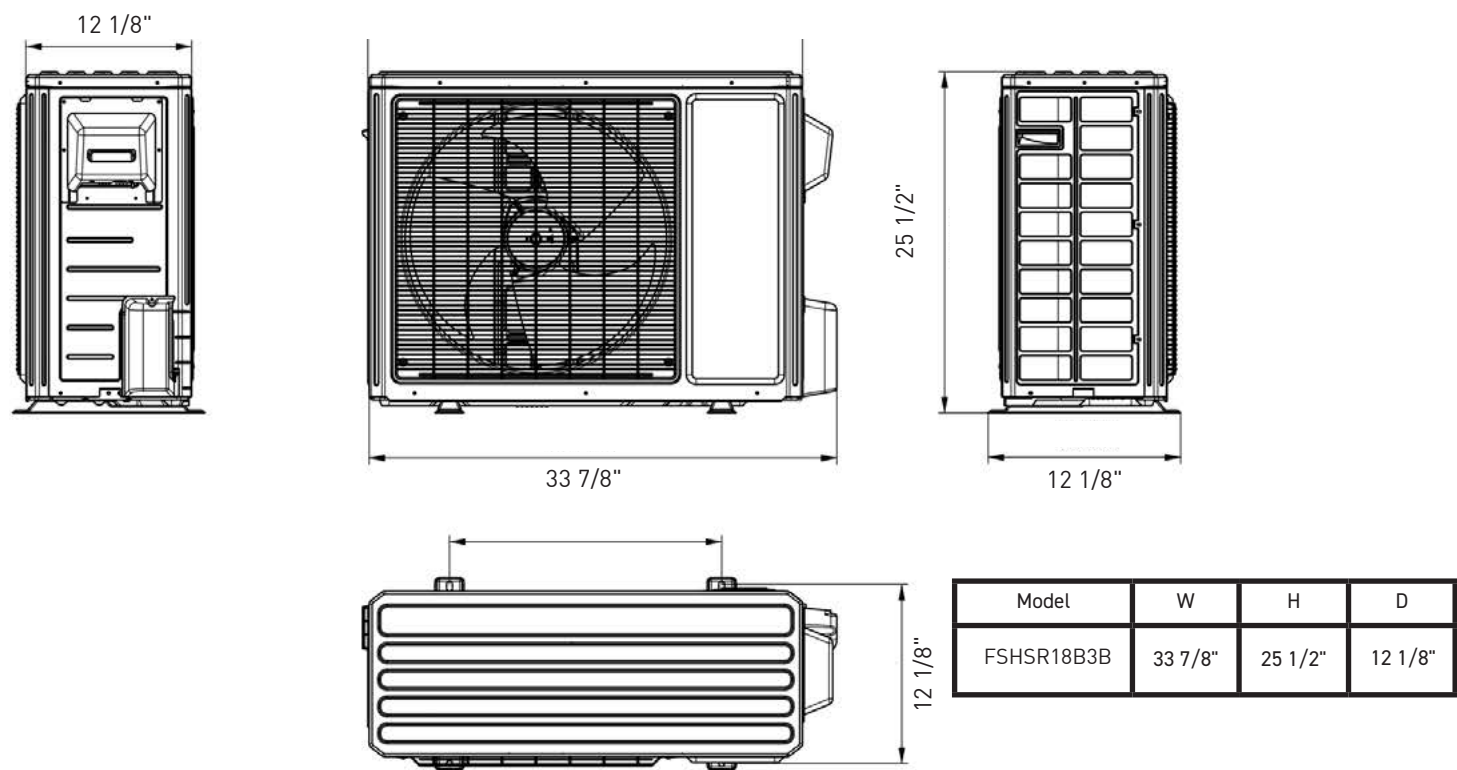
**INDOOR UNIT / FAHFW24A3A**

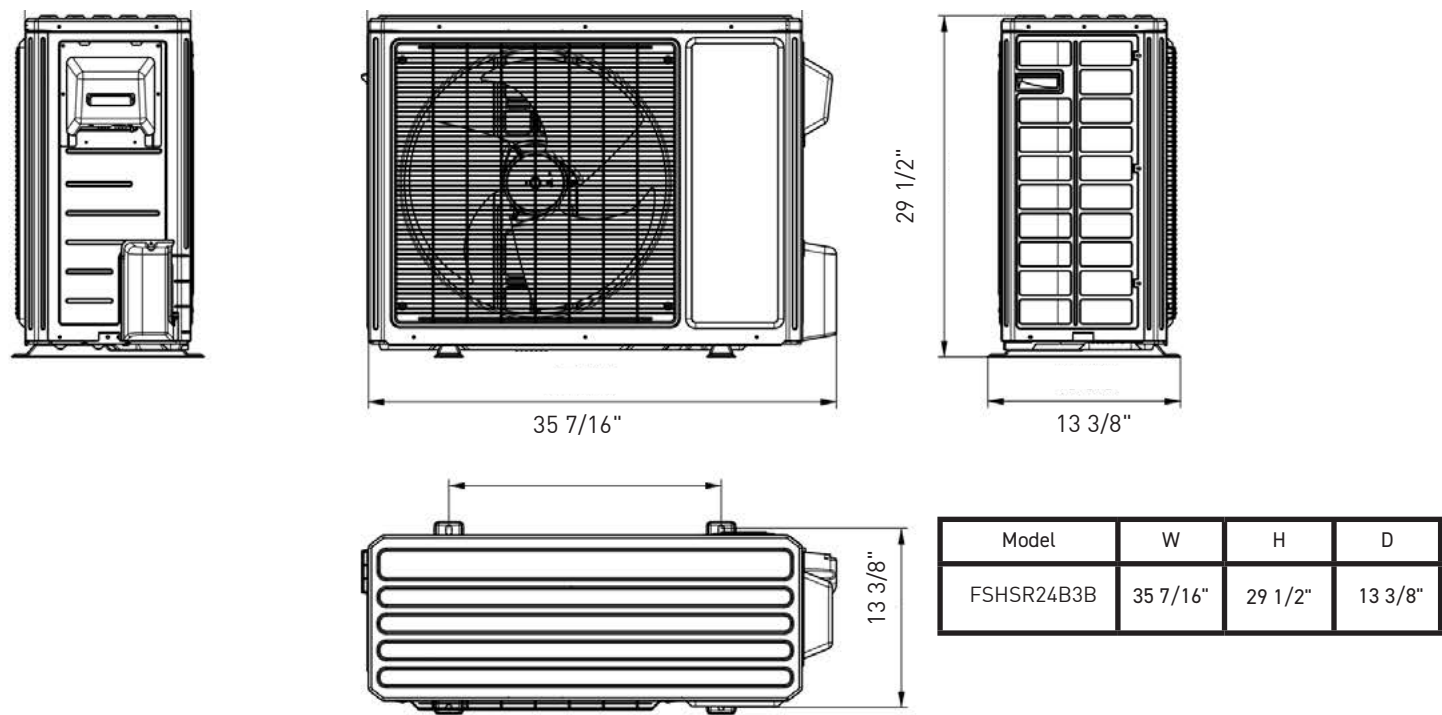


**DIMENSIONAL DRAWINGS**  
**OUTDOOR UNITS / FSHSR09B1B, FSHSR12B1B**



**OUTDOOR UNITS / FSHSR18B3B**







# PRELIMINARY - A2L Ductless Mini Split

SINGLE ZONE, WALL-MOUNTED HEAT PUMPS

## Product Specification Sheet

FLOATING AIR® PRO | WALL-MOUNTED HEAT PUMPS

| PERFORMANCE RATINGS                               |            |                             |                 |                             |                              |
|---------------------------------------------------|------------|-----------------------------|-----------------|-----------------------------|------------------------------|
| System Model No.                                  |            | FPHW093B                    | FPHW123B        | FPHW183B                    | FPHW243B                     |
| Indoor Model                                      |            | FAHFW09A3A                  | FAHFW12A3A      | FAHFW18A3A                  | FAHFW24A3A                   |
| Outdoor Model                                     |            | FPHSR09A3B                  | FPHSR12A3B      | FPHSR18A3B                  | FPHSR24A3B                   |
| SPECIFICATIONS                                    |            |                             |                 |                             |                              |
| Capacity Cooling (Rated)                          | Btu        | 9,000                       | 12,000          | 18,000                      | 24,000                       |
| Capacity Cooling (Min.-Max.)                      | Btu        | 3,600-10,000                | 4,000-13,000    | 6,500-19,000                | 8,000-25,000                 |
| Capacity Heating (Rated) @ 47°F                   | Btu        | 9,000                       | 12,000          | 18,000                      | 24,000                       |
| Capacity Heating (Rated) @ 17°F                   | Btu        | 9,000                       | 10,800          | 18,000                      | 22,000                       |
| Capacity Heating (Min.-Max.)                      | Btu        | 3,600-10,000                | 4,000-13,000    | 6,500-19,000                | 8,000-25,000                 |
| Capacity Heating (M1 Calc) @ 5°F                  | Btu        | 9,000                       | 10,500          | 18,000                      | 19,200                       |
| Capacity Heating (Min.-Max.) @ -4°F               | Btu        | 6,700                       | 7,700           | 13,700                      | 14,100                       |
| Sensible Heat Ratio                               |            | 83.0%                       | 73.0%           | 79.0%                       | 70%                          |
| COP                                               |            | 4.0                         | 3.9             | 3.7                         | 3.3                          |
| HSPF2                                             |            | 11.0                        | 10.0            | 10.0                        | 9.5                          |
| SEER2                                             |            | 25.0                        | 23.0            | 21.0                        | 22.5                         |
| EER2                                              |            | 13.7                        | 12.3            | 12.95                       | 12.3                         |
| ENERGY STAR®                                      |            | YES                         | YES             | YES                         | YES                          |
| Moisture Removal                                  | Pts/h      | 1.6                         | 2.2             | 2.7                         | 4.0                          |
| Airflow - (High/Med/Low/Quiet)                    | CFM        | 382/341/294/247             | 394/364/311/252 | 647/588/482/382             | 705/647/558/441              |
| Sound Rating - Indoor<br>(Max/High/Med/Low/Quiet) | dB-A       | 42/39/37/35/32              | 42/39/37/35/32  | 48/45/41/39/36              | 50/48/43/41/39               |
| Sound Rating - Outdoor                            | dB-A       | 53                          | 53              | 58                          | 61                           |
| Operating Range Indoor                            | °F         | (45°F - 81°F)               | (45°F - 81°F)   | (45°F - 81°F)               | (45°F - 81°F)                |
| (Heating) Outdoor                                 | °F         | (-13°F - 75°F)              | (-13°F - 75°F)  | (-13°F - 75°F)              | (-13°F - 75°F)               |
| Operating Range Indoor                            | °F         | (70°F - 90°F)               | (70°F - 90°F)   | (70°F - 90°F)               | (70°F - 90°F)                |
| (Cooling) Outdoor                                 | °F         | (5°F - 118°F)               | (5°F - 118°F)   | (5°F - 118°F)               | (5°F - 118°F)                |
| Est. Yearly Operating Cost                        | U.S. \$    | \$58                        | \$90            | \$125                       | \$180                        |
| ELECTRICAL DATA                                   |            |                             |                 |                             |                              |
| Power Source                                      | V-Hz-Phase | 230/208V                    | 230/208V        | 230/208V-60Hz-1P            | 230/208V-60Hz-1P             |
| Min. Ampacity                                     | A          | 9.5                         | 10.5            | 20.0                        | 22.0                         |
| Cooling Watts                                     | W          | 590                         | 979             | 1360                        | 1955                         |
| Cooling Amps                                      | A          | 2.6                         | 4.3             | 6.1                         | 8.3                          |
| Heating Watts                                     | W          | 690.0                       | 901.0           | 1460.0                      | 2100.0                       |
| Heating Amps                                      | A          | 3.1                         | 4.1             | 6.5                         | 9.3                          |
| Max. TD Fuse/Breaker                              | A          | 15                          | 15              | 30                          | 35                           |
| Power and Communication Cable                     | No. x AWG  | 4 x 14AWG                   | 4 x 14AWG       | 4 x 14AWG                   | 4 x 14AWG                    |
| REFRIGERATION SYSTEM                              |            |                             |                 |                             |                              |
| Refrigerant                                       |            | R-454B                      | R-454B          | R-454B                      | R-454B                       |
| Compressor Type                                   |            | Rotary Inverter             | Rotary Inverter | Rotary Inverter             | Rotary Inverter              |
| Connections                                       |            | Flared                      | Flared          | Flared                      | Flared                       |
| Liquid Line O.D.                                  | in.        | 1/4                         | 1/4             | 1/4                         | 3/8                          |
| Suction Line O.D.                                 | in.        | 3/8                         | 3/8             | 1/2                         | 5/8                          |
| Refrigerant Charge                                | oz.        | 35.0                        | 38.0            | 53.0                        | 71.0                         |
| Factory Precharge                                 | ft.        | 25'                         | 25'             | 25'                         | 25'                          |
| Min. / Max. Line Length                           | ft.        | 10' / 66'                   | 10' / 66'       | 10' / 100'                  | 10' / 100'                   |
| Max. Height Difference                            | ft.        | 50'                         | 50'             | 50'                         | 50'                          |
| DIMENSIONS & WEIGHT                               |            |                             |                 |                             |                              |
| Indoor Unit                                       |            |                             |                 |                             |                              |
| W x H x D                                         | in.        | 33 7/8" x 11 3/16" x 8 1/2" |                 | 45 1/8" x 13 1/8" x 10"     |                              |
| Net Weight                                        | lbs.       | 22                          | 22              | 34.0                        | 34.0                         |
| Shipping Weight                                   | lbs.       | 26.5                        | 26.5            | 37.4                        | 37.4                         |
| Outdoor Unit                                      |            |                             |                 |                             |                              |
| W x H x D                                         | in.        | 31 7/8" x 23" x 11"         |                 | 33 7/8" x 25 1/2" x 12 1/8" | 35 7/16" x 29 1/2" x 13 3/8" |
| Net Weight                                        | lbs.       | 70.6                        | 70.6            | 97                          | 112.0                        |
| Shipping Weight                                   | lbs.       | 82.0                        | 82.0            | 106.0                       | 121.0                        |
| Total Net Weight                                  | lbs.       | 92.6                        | 92.6            | 131.0                       | 146.0                        |
| Total Shipping Weight                             | lbs.       | 108.5                       | 108.5           | 143.4                       | 158.4                        |

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh. For more information, visit -[www.ftc.gov/energy](http://www.ftc.gov/energy).

CERTIFICATIONS TBD-NEED CONFIRMATION





**Product Specification Sheet**

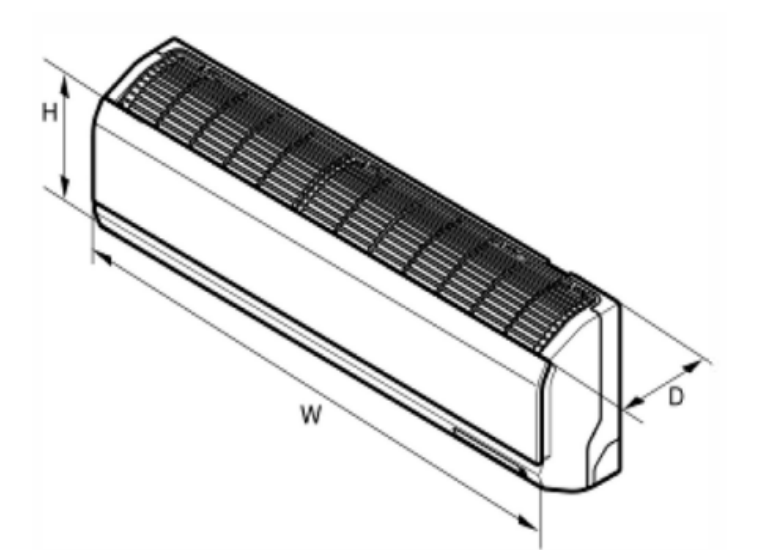
| REFRIGERATION LINE SETS           |        |         |              |              |
|-----------------------------------|--------|---------|--------------|--------------|
| FLOATING AIR® PRO WALL-MOUNTED    |        |         |              |              |
| System Model                      | Liquid | Suction | Lineset Kit  | Lineset Kit  |
| FPHW093B                          | 1/4"   | 3/8"    | T32150 - 15' | T32350 - 35' |
| FPHW123B                          | 1/4"   | 3/8"    | T32150 - 15' | T32350 - 35' |
| FPHW183B                          | 1/4"   | 1/2"    | T42150 - 15' | T42250 - 25' |
| FPHW243B                          | 3/8"   | 5/8"    | T53250 - 25' | T53350 - 35' |
| FLOATING AIR® SELECT WALL-MOUNTED |        |         |              |              |
| FSHW091A                          | 1/4"   | 3/8"    | T32150 - 15' | T32350 - 35' |
| FSHW121A                          | 1/4"   | 3/8"    | T32150 - 15' | T32350 - 35' |
| FSHW183A                          | 1/4"   | 1/2"    | T42150 - 15' | T42350 - 35' |
| FSHW243A                          | 3/8"   | 5/8"    | T52250 - 25' | T52350 - 35' |

**ACCESSORIES**

| KIT # | DESCRIPTION                  |
|-------|------------------------------|
| FPWC1 | Wired wall controller        |
| UVL1  | Germicidal UV Light Kit      |
| APWM1 | Bi-polar Ionization Purifier |

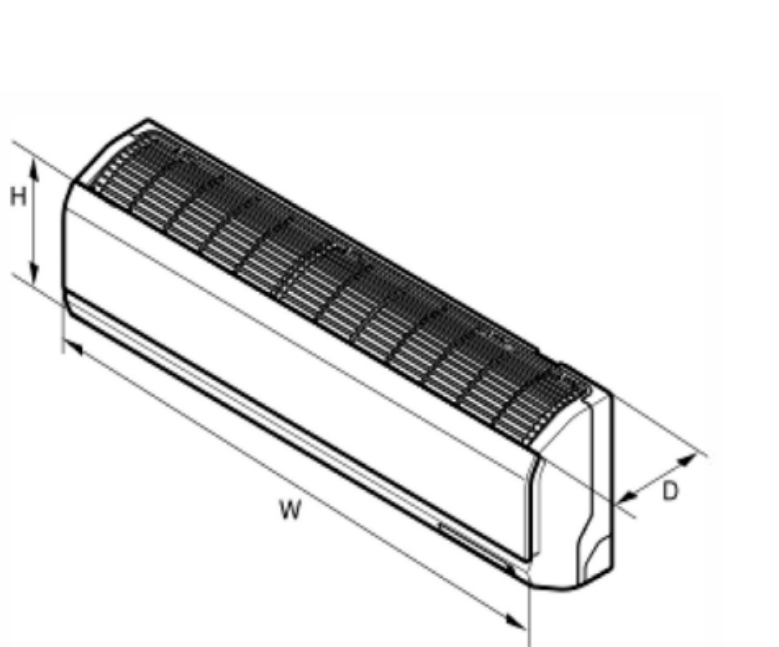
**DIMENSIONAL DRAWINGS**  
**INDOOR UNIT / FAHFW09A3A, FAHFW12A3A**

|                          | W       | H        | D      |
|--------------------------|---------|----------|--------|
| FAHFW09A3A<br>FAHFW12A3A | 33 7/8" | 11 3/16" | 8 1/2" |



**INDOOR UNIT / FAHFW18A3A, FAHFW24A3A**

|                          | W       | H       | D   |
|--------------------------|---------|---------|-----|
| FAHFW18A3A<br>FAHFW24A3A | 45 1/8" | 13 1/8" | 10" |

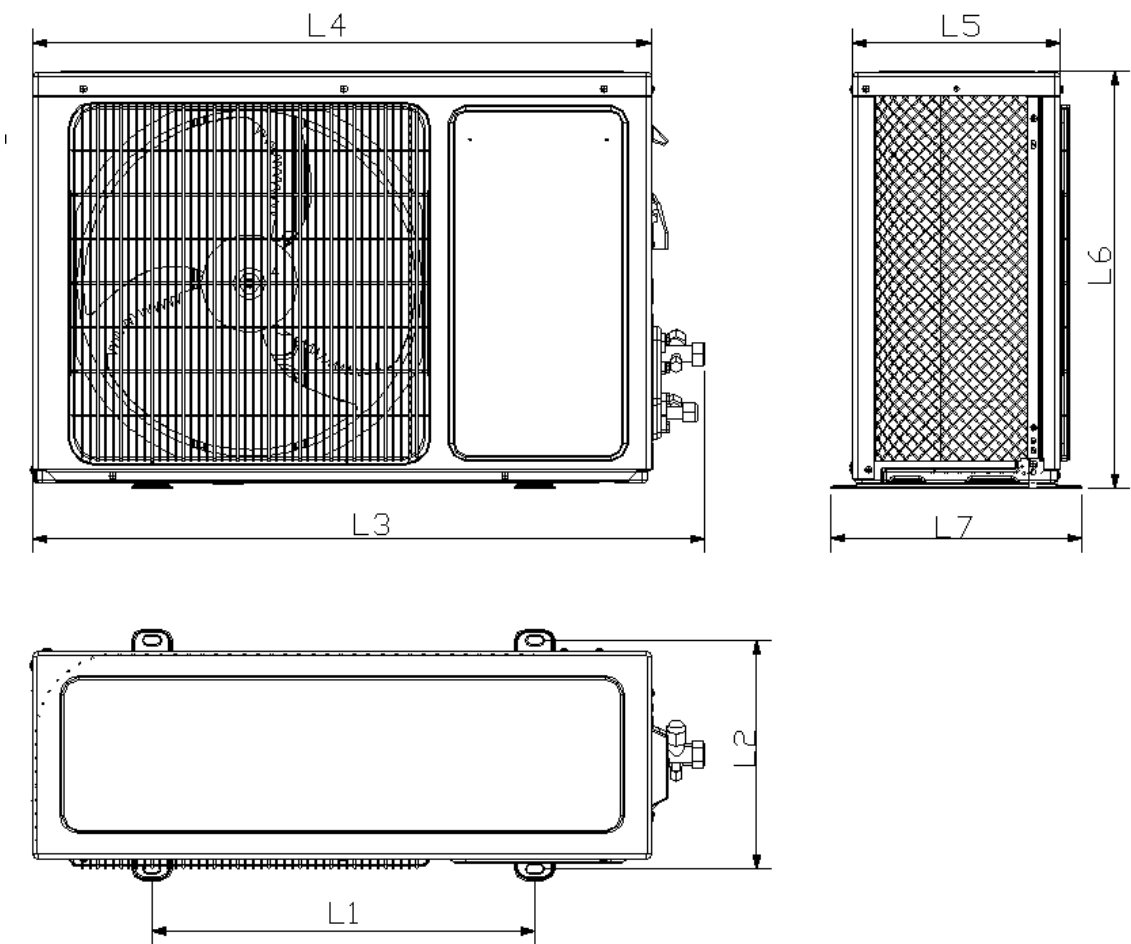




DIMENSIONAL DRAWINGS

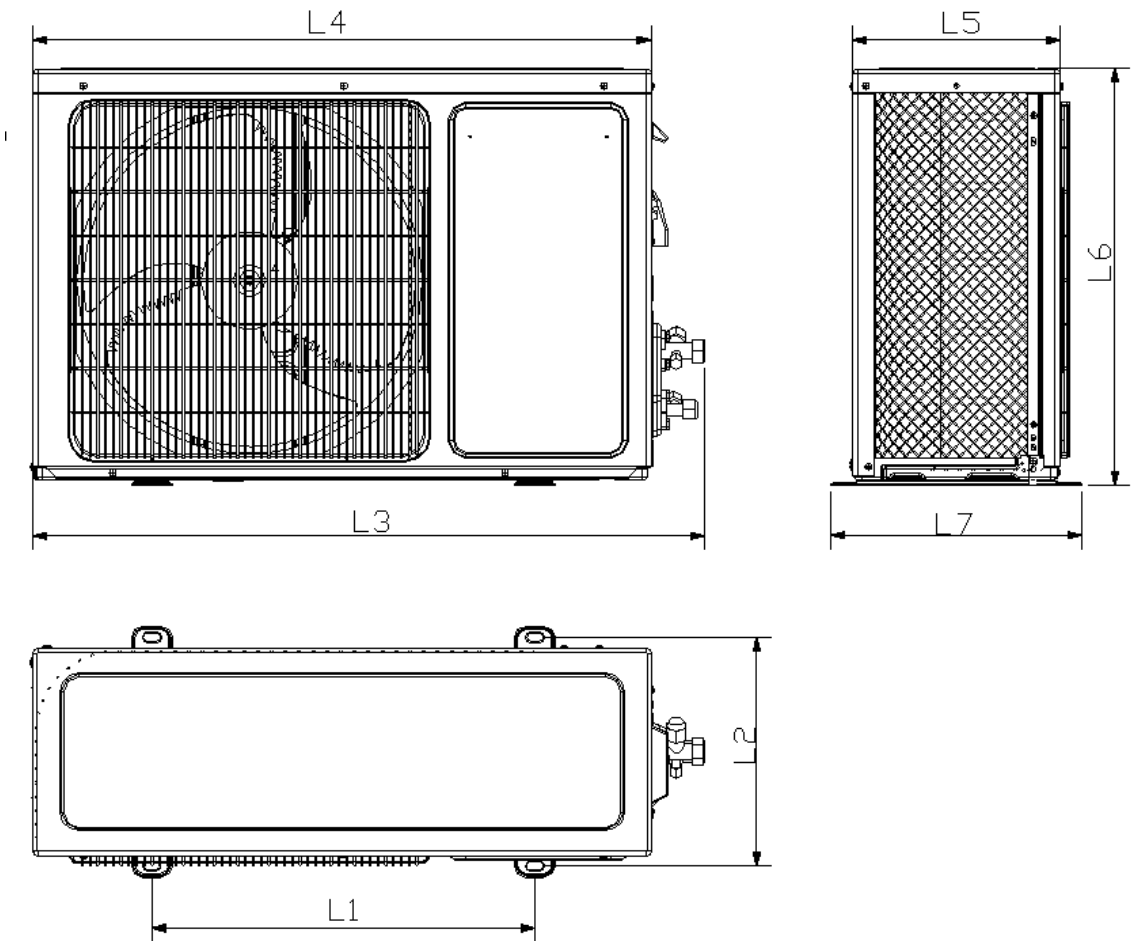
OUTDOOR UNITS / FPHSR09A3B, FPSHR12A3B

Outdoor units:



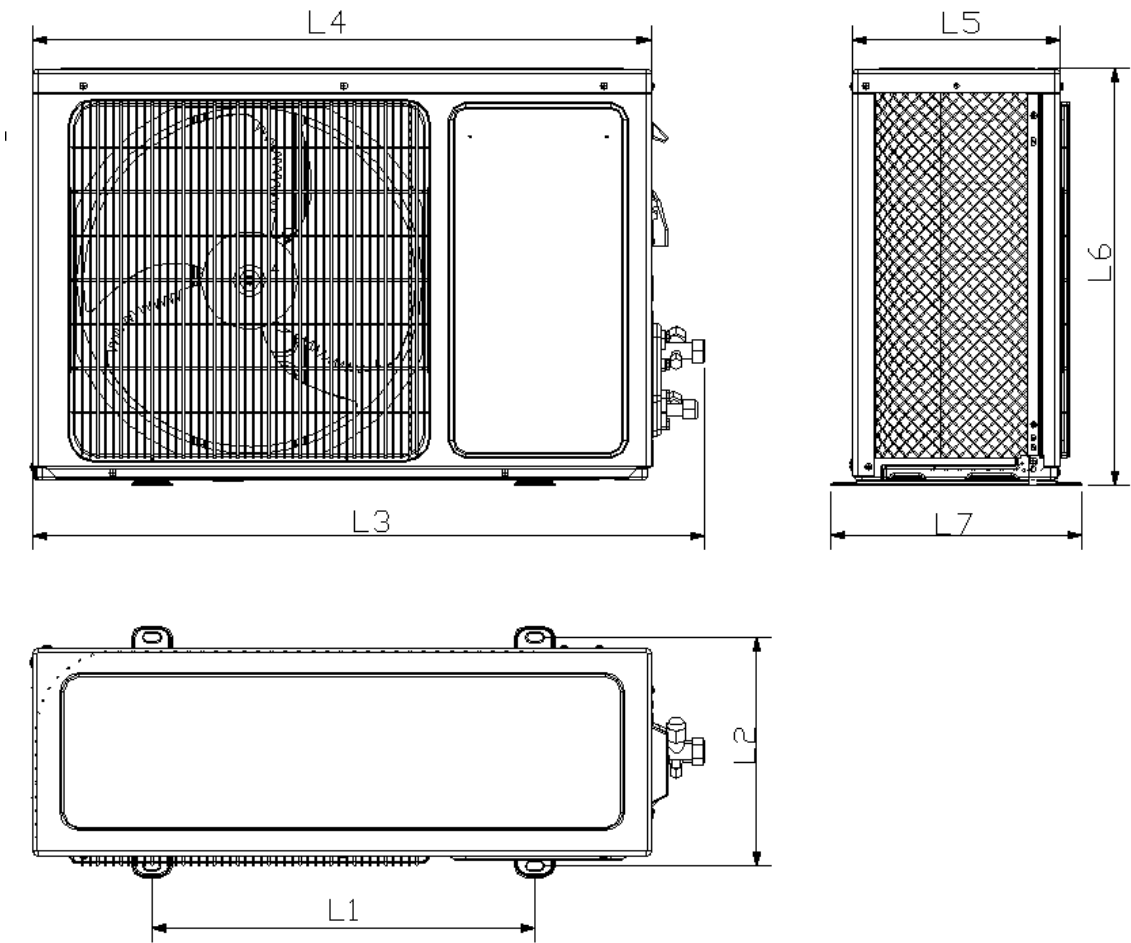
|            |             |             |             | Width       | Depth       | Height      |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model      | L1<br>(in.) | L2<br>(in.) | L3<br>(in.) | L4<br>(in.) | L5<br>(in.) | L6<br>(in.) | L7<br>(in.) |
| FPHSR09A3B | 20 1/16"    | 12 19/32"   | 34 7/8"     | 31 7/8"     | 23"         | 11"         | 13"         |
| FPSHR12A3B | 20 1/16"    | 12 19/32"   | 34 7/8"     | 31 7/8"     | 23"         | 11"         | 13"         |

Outdoor units:



|            |             |             |             | Width       | Depth       | Height      |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model      | L1<br>(in.) | L2<br>(in.) | L3<br>(in.) | L4<br>(in.) | L5<br>(in.) | L6<br>(in.) | L7<br>(in.) |
| FPHSR18A3B | 21 11/32"   | 12 19/32"   | 34 7/8"     | 33 7/8"     | 25 1/2"     | 12 1/8"     | 13"         |

Outdoor units:



|            |             |             |             | Width       | Depth       | Height      |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model      | L1<br>(in.) | L2<br>(in.) | L3<br>(in.) | L4<br>(in.) | L5<br>(in.) | L6<br>(in.) | L7<br>(in.) |
| FPHSR24A3B | 26"         | 12 19/32    | 37 3/4"     | 35 7/16"    | 29 1/2"     | 13 3/8"     | 16 5/16"    |