

JOB NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 PURCHASER: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 SUBMITTED TO: \_\_\_\_\_ FOR: REFERENCE [ ] APPROVAL [ ] CONSTRUCTION [ ]  
 SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 UNIT DESIGNATION: SCHEDULE #: \_\_\_\_\_ MODEL #: \_\_\_\_\_

Manufacturer reserves the right to change these specifications at any time without incurring obligation.



**▲ PERFORMANCE:** \_\_\_\_\_

Performance certified in accordance with ARI 210/240

**COOLING**

Indoor design conditions: 80°F Dry Bulb / 67°F Wet Bulb  
 Outdoor design conditions: 95°F

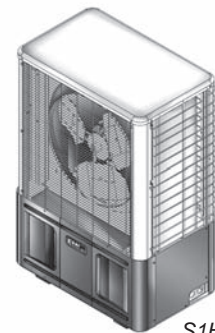
**HEATING**

Indoor design conditions: 70°F Dry Bulb / 57°F Wet Bulb  
 Outdoor design conditions (High): 47°F Dry Bulb / 43°F Dry Bulb  
 Outdoor design conditions (Low): 17°F Dry Bulb / 15°F Dry Bulb

UNHA



| SYSTEM CAPACITIES |          |                        |                        |      |       |
|-------------------|----------|------------------------|------------------------|------|-------|
| Models            |          | Cooling                |                        |      |       |
| Indoor            | Outdoor  | Capacity               | SEER                   | SHR  | EER   |
| UNHA09            | S1HA9000 | 8,800 Btuh<br>(2.6 kW) | 13.0                   | 0.73 | 11.60 |
|                   |          | Heating                |                        |      |       |
|                   |          | High Temperature       | Low Temperature        | HSPF | COP   |
|                   |          | 7,800 Btuh<br>(2.3 kW) | 4,600 Btuh<br>(1.4 kW) | 7.7  | 3.4   |



S1HA

**▲ STANDARD FEATURES:** \_\_\_\_\_

**INDOOR UNIT:**

- Ceiling-Suspended or Floor Console mounted without any field modification.
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Indoor Coil.
- Unit-mounted, Infrared compatible control package, configurable to either unit mount or 24 Volt wall thermostat
- Control programming stored in non-volatile memory (*unit will restart following power failure*)
- Indoor coil freeze protection



**EMI ENGINEERING SUBMITTAL**

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**▲ STANDARD FEATURES:**

**INDOOR UNIT:** *Continued*

- Anti-short cycle compressor protection
- Fan purge
- Dry mode for humidity control (*requires electric heat*)
- Factory-installed condensate pan overflow protection
- Factory-supplied molex-type connector for condensate pump power and control connections
- 24-7 programming
- One year Limited Parts Warranty

**OUTDOOR UNIT:**

- Single Zone, Heat Pump, Side Discharge Unit
- Standard Operating Low Ambient in Cooling 32 °F (0 °C)
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Outdoor Coil

- R-22 Refrigerant
- Duratec Compressor Protection Package which includes the following items:
  - Suction Accumulator
  - Filter Drier
  - Loss of Charge Switch
  - Crankcase heater
  - Start assist
- High Pressure Switch (*automatic reset*)
- Factory Installed Compressor Start Assist Capacitor
- Coated Wire Grille Condenser Coil Protection and Fan Guard
- Five years Limited Compressor Warranty, One year Limited Parts Warranty

*Please use check-box to select Options and Accessories.*

**▲ FACTORY INSTALLED OPTIONS:**

**INDOOR UNIT**

***Power Connection:***

- 115-1-60
- 208/230-1-60

***Electric Heat:***

- None
- 0.75 / 3.0 kW (115/230 Volt)

**OUTDOOR UNIT**

***Power Connection:***

- 115-1-60
- 208/230-1-60

***Condenser Coil:***

- Copper Tube/ Copper Fin
- Copper Tube/ Post-Coat Aluminum Fin

**▲ FIELD INSTALLED ACCESSORIES:**

**INDOOR UNIT**

***Condensate Pump:***

- 48" (1.2 m) Lift
- 144" (3.7 m) Lift
- Floor Mount Trim Kit** (*Required for Floor Mount with Condensate Pump accessory*)
- 24 Volt Wall Thermostat**
- Infrared Hand-Held Controller**

**OUTDOOR UNIT**

- Wind Baffle/Hail Guard, Architectural Louver Kit** (*Required for cooling operation to 0° F (-18° C)*)

***Refrigerant Line Sets***

- 10'
- 25'
- 50'

**EMI ENGINEERING SUBMITTAL UNHA09-S1HA9000**

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**ELECTRICAL SPECIFICATIONS**

| Indoor Unit | V-Ph-Hz      | Voltage |     | Indoor Fan Motor |      | Heater |       | Unit FLA | MCA  | MOCP |
|-------------|--------------|---------|-----|------------------|------|--------|-------|----------|------|------|
|             |              | Min     | Max | RLA              | HP   | kW     | Amps  |          |      |      |
| UNHA09      | 115-1-60     | 104     | 126 | 0.64             | 0.02 | -      | -     | 0.64     | 0.8  | 15   |
|             |              |         |     |                  |      | 0.75   | 6.50  | 7.14     | 8.9  | 15   |
|             | 208/230-1-60 | 197     | 240 | 0.34             | 0.02 | -      | -     | 0.34     | 0.4  | 15   |
|             |              |         |     |                  |      | 3.00   | 13.04 | 13.38    | 16.7 | 20   |

| Outdoor Unit | Power Supply V-1-60 |     |     | Control* V-1-60 | Compressor |     |      | Outdoor Fan Motor |     |       | Unit FLA | MCA | MOCP |
|--------------|---------------------|-----|-----|-----------------|------------|-----|------|-------------------|-----|-------|----------|-----|------|
|              | Volts               | Min | Max |                 | Qty        | RLA | LRA  | Qty               | FLA | HP    |          |     |      |
| S1HA9000     | 115                 | 104 | 126 | 24              | 1          | 6.6 | 39.2 | 1                 | 1.4 | 0.125 | 8.0      | 9.7 | 15   |
|              | 208/230             | 197 | 240 | 24              | 1          | 3.4 | 23.0 | 1                 | 0.8 | 0.125 | 4.2      | 5.1 | 15   |

**Note:** \* - Control Voltage is supplied from the indoor unit. No separate supply required.

**SOUND DATA**

| Unit     | Sound dBA |
|----------|-----------|
| UNHA09   | 51        |
| S1HA9000 | 59        |

**WEIGHT DATA**

| Unit     | Weight, lbs (kg) |
|----------|------------------|
| UNHA09   | 92 (42)          |
| S1HA9000 | 98 (45)          |

**Note:** Sound data for indoor unit at high speed, 230 V  
Sound data for outdoor unit at 230V

**INTERCONNECTING TUBING SPECIFICATIONS**

| Indoor Unit | Outdoor Unit | Maximum Separation, Equivalent ft (m) | Maximum Elevation Difference, ft (m) | Liquid Line OD | Suction Line OD | Condensate Line ID |
|-------------|--------------|---------------------------------------|--------------------------------------|----------------|-----------------|--------------------|
| UNHA09      | S1HA9000     | 100 (30.5)                            | 35 (10.7)                            | 1/4"           | 1/2"            | 1/2"               |

**INDOOR AIR FLOW**

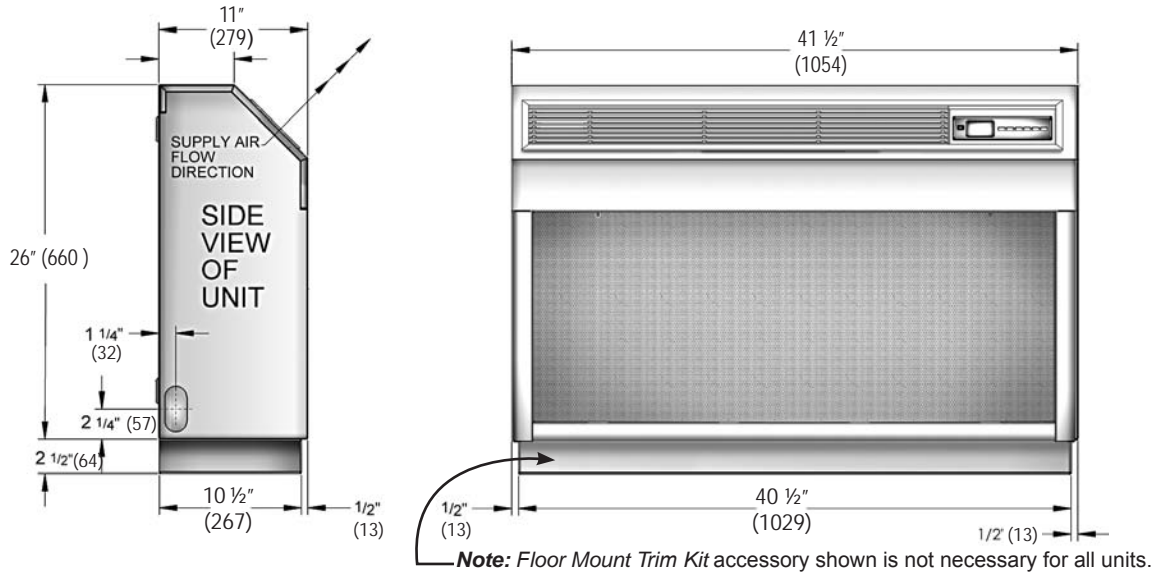
| Indoor Unit | CFM (l/s)  |           | Coil | ft/min (m/s) | Air Throw, ft. (m) |
|-------------|------------|-----------|------|--------------|--------------------|
|             | High Speed | Low Speed |      |              |                    |
| UNHA09      | 425 (200)  | 375 (175) | Dry  | 900 (4.6)    | 15 (4.6)           |

EMI ENGINEERING SUBMITTAL UNHA09-S1HA9000

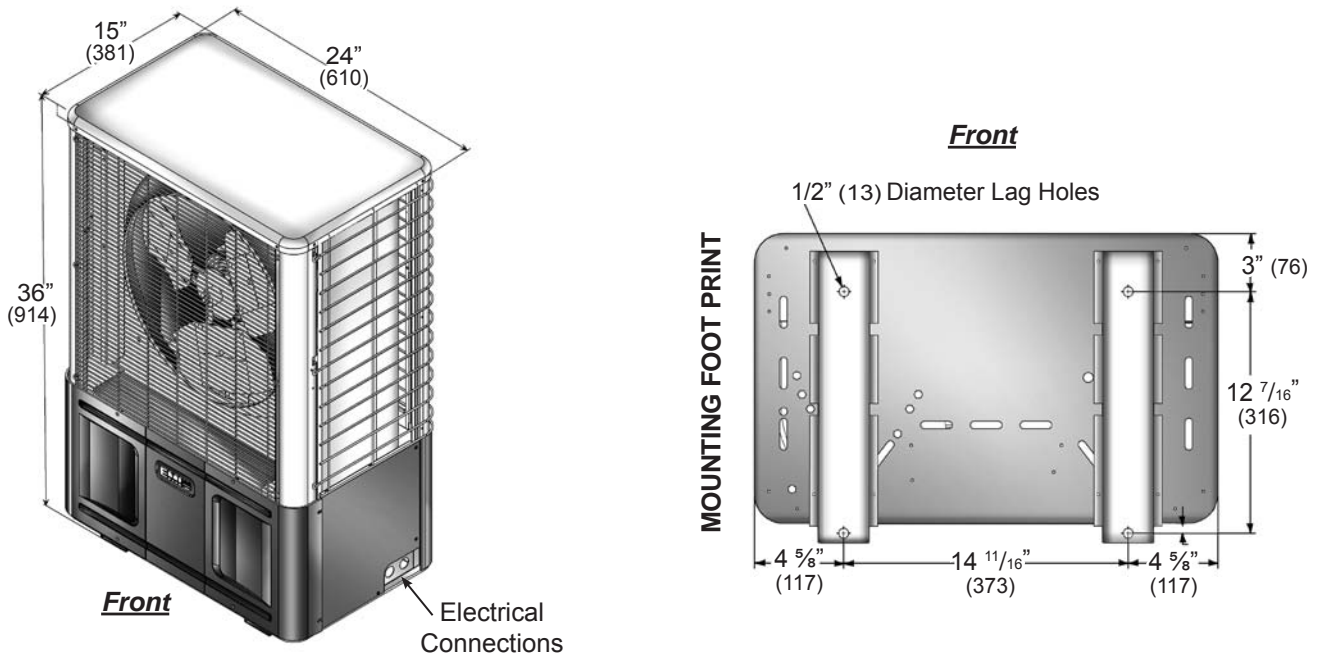
PHYSICAL DIMENSIONS

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INDOOR UNIT



OUTDOOR UNIT



Note: Numbers in ( ) are mm.