

Submittal Data Sheet

15.2 SEER2, Heat Pump System, 4.0 Ton, Outdoor Unit-GSZH504810A*

Submitted By : Goodman/Amana Unitary Test System

Submitted To : N/A

Tags : AHRI 208509799 Products [GSZH504810A* , AMST48CU1400A* ,] , SEER2 15.2 , EER2 12.0 , HSPF2 7.8

STANDARD FEATURES:

- High-Efficiency scroll compressor
- SmartShift® technology to ensure quiet reliable defrost
- Copper tube/ enhanced aluminum fin coil- 5mm diameter on 1.5-3.5T
- Factory-installed suction-line accumulator
- Factory-installed compressor crankcase heater
- Factory-installed high-capacity muffler
- High- and low-pressure switches
- Service valves with sweat connections and easy access to gauge ports
- Fully charged for 15' of tubing length
- Contactor with lug connection
- Ground lug connection
- AHRI Certified
- ETL Listed

CABINET FEATURES:

- Removable grille style top design compliant with UL 60335-2-40
- Steel louver coil guard
- Heavy-gauge galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Top and side maintenance access
- Single panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2020 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available)



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SYSTEM PERFORMANCE

| | | | |
|----------------------------------|---|------------------------------------|---|
| Outdoor Unit Model No.: | GSZH504810A* | Description : | 15.2 SEER2, Heat Pump System, 4.0 Ton Outdoor System |
| Indoor Unit Model No.: | AMST48CU1400A* | | |
| TXV/PISTON : | Factory | | |
| Rated Cooling Conditions: | Outdoor (°F DB/WB):95/75 Indoor (°F DB/WB):N/A/N/A | Rated Heating Conditions: | Outdoor (°F DB/WB):47/43 Indoor (°F DB/WB):N/A/N/A |
| Rated Cooling Capacity (Btu/hr): | 45500 | OD Rated Heating Capacity (Btu/hr) | 48000 |
| EER2: | 12.0 | EER: | N/A |
| Heating COP: | 3.8 | SEER2: | 15.2 |
| SEER: | N/A | * HSPF: | N/A |
| * HSPF2: | 7.8 | | |

OUTDOOR UNIT DETAILS : GSZH504810A*

| | | | |
|-------------------------------------|--------------|---------------------------------------|--------------------|
| Power Supply (V/Hz/Ph): | 208/230/60/1 | Compressor Type: | Scroll |
| Min. Circuit Amps MCA (A): | 26.2 | Compressor Stages: | Single Stage |
| Quantity: | 1 | Max Overcurrent Protection (MOP) (A): | 45.0 |
| Suction Valve Connection Size (in): | 7/8 | Compressor Rated Load Amps : | 19.9 |
| Liquid Valve Connection Size (in): | - | Refrigerant Type: | R-410A |
| Sound Power(High/Med/Low) (dBA): | 73 / - / - | Holding Refrigerant Charge (oz): | 222 |
| Cooling Operation Range (°F DB): | 55 - 125 | Additional Charge (oz/ft): | 0.6 |
| Heating Operation Range (°F DB): | -20 - 70 | Pre-charge Piping (Length) (ft): | 15 |
| Net Weight (lb): | 272 | Dimensions (HxWxD) (in): | 36.5 x 35.5 x 35.5 |
| Gross Weight (lb): | 299 | *Max. Pipe Length (Vertical) (ft): | 80 |
| *Max. Pipe Length (Total) (ft): | 200 | | |

**Refer to Long Line Set Application TP-107 for lines greater than 80 ft. or vertical elevation changes more than 50 ft. for single stage equipment and 25 ft. for 2-stage equipment.*



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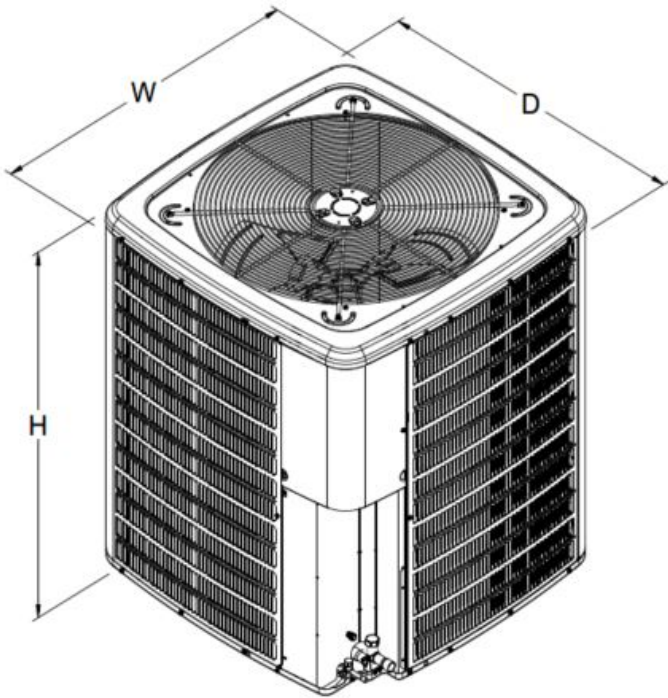
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| MODEL | DIMENSIONS | | |
|--------------|------------|-----|-----|
| | W" | D" | H" |
| GSZH501810A* | 29 | 29 | 39½ |
| GSZH502410A* | 35½ | 35½ | 35½ |
| GSZH503010A* | 35½ | 35½ | 39½ |
| GSZH503610A* | 35½ | 35½ | 39½ |
| GSZH504210A* | 35½ | 35½ | 35½ |
| GSZH504810A* | 35½ | 35½ | 36½ |
| GSZH506010A* | 35½ | 35½ | 41½ |



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STANDARD FEATURES:

- Internal factory-installed thermal expansion valves for cooling and heat pump applications
- Direct drive, 9-speed ECM blower motor
- Factory installed 7mm AlumaFin7™ Evaporator Coil on 1½ to 3½ Ton models and 3/8 in. Evaporator Coil on 4 to 5 Ton models
- All-aluminum evaporator coil with high-performance coated fin stock
- Coil mounting track for quick repositioning
- Optimized for use with R-410A refrigerant
- Cabinet air leakage less than 2.0% at 1.0 inch H2O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch H2O when tested in accordance with ASHRAE standard 193
- 3 kW – 25 kW electric heater kits
- AHRI certified
- ETL listed

CABINET FEATURES:

- Rigid SmartFrame cabinet
- Horizontal or vertical configuration capabilities
- 21" depth for easier attic access
- DecaBDE-free thermoplastic drain pan with secondary drain connections
- Screw-less sides and back helps to reduce condensation when installed in humid locations
- Foil-faced insulation covers the internal casing to reduce cabinet condensation
- Galvanized, leather grain-embossed finish
- Glue-less cabinet insulation retention
- Tool-less filter access



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INDOOR AIR HANDLER UNIT DETAILS : AMST48CU1400

| | | | |
|---------------------------------------|-----------------|-------------------------------|------------------|
| Quantity: | 1 | Configuration: | Multi-positional |
| Power Supply (V/Hz/Ph): | 208/240/50/60/1 | Suction Connection Size (in): | 7/8 |
| Min. Circuit Amps MCA (A): | 7.1 | Liquid Connection Size (in): | 3/8 |
| Max Overcurrent Protection (MOP) (A): | 15 | Condensate Connection (in): | 3/4 |
| Net Weight (lb): | 153 | Dimensions (HxWxD) (in): | 58 x 21 x 21 |
| Gross Weight (lb): | 155 | Power Voltage (lb): | 208/240 |
| Current Type : | - | Power Phase: | 1 |
| Power Frequency : | 50/60 | Min Voltage : | 208 |
| Max Voltage : | 240 | MCA : | 7.1 |
| MOP : | 15 | Electric Heat Range : | - |
| Indoor Blower FLA : | - | Fan Motor Output : | - |

The Electrical data shown here in submittal is for Air Handler only with no heat added. When adding Heat Kit please refer to Heat Kit Spec Sheet for electrical requirements



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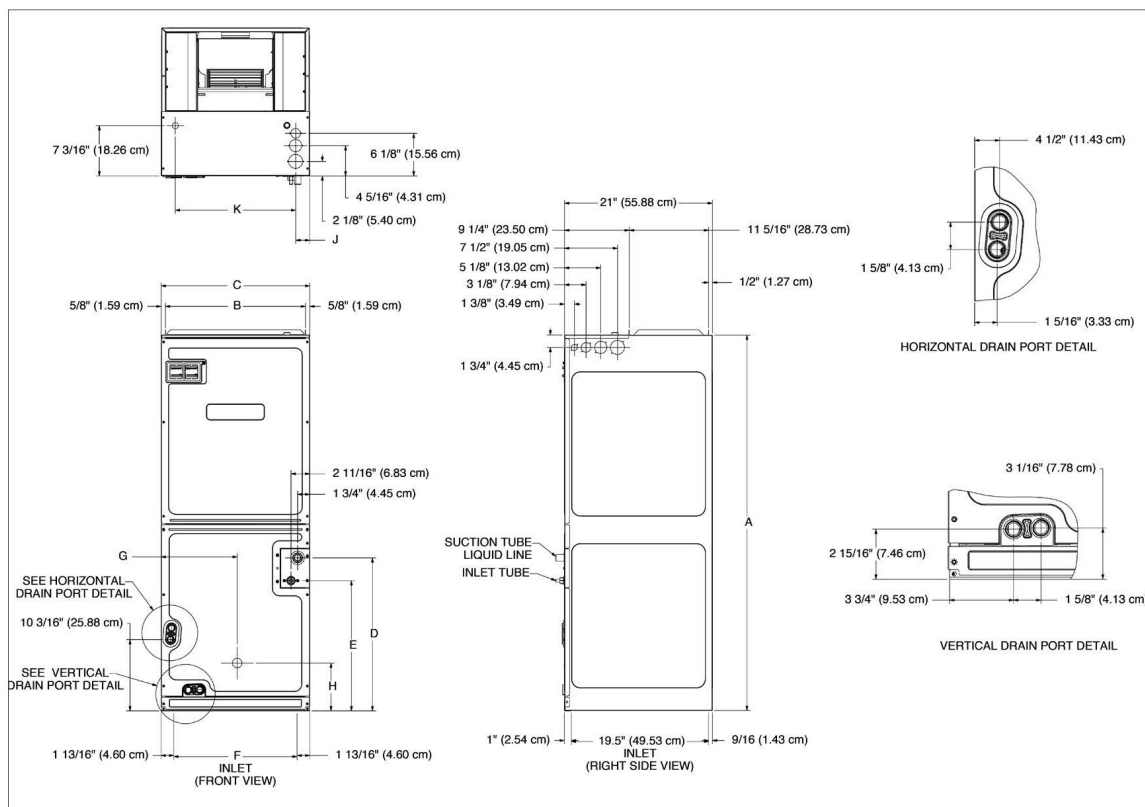
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| MODEL | A" | B" | C" | D" | E" | F" | G" | H" | J" | K" |
|-----------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----|--------------------------------|
| AMST24BU* | 45 | 16 ⁵ / ₁₆ | 17 ⁹ / ₁₆ | 15 ¹ / ₄ | 12 | 12 ¹ / ₂ | 9 | 12 ⁹ / ₁₆ | 2 | 13 ³ / ₈ |
| AMST30BU* | 53 ⁷ / ₁₆ | 16 ⁵ / ₁₆ | 17 ⁹ / ₁₆ | 23 ¹¹ / ₁₆ | 20 ³ / ₁₆ | 12 ¹ / ₂ | 9 | 12 ³ / ₄ | 2 | 13 ³ / ₈ |
| AMST36BU* | 53 ⁷ / ₁₆ | 16 ⁵ / ₁₆ | 17 ⁹ / ₁₆ | 23 ¹¹ / ₁₆ | 20 ³ / ₁₆ | 12 ¹ / ₂ | 9 | 12 ³ / ₄ | 2 | 13 ³ / ₈ |
| AMST36CU* | 49 | 19 ¹³ / ₁₆ | 21 ¹ / ₈ | 21 ¹² / ₁₆ | 17 ¹ / ₄ | 16 ¹ / ₁₆ | 9 | 12 ³ / ₄ | 2 | 17 ¹ / ₈ |
| AMST42CU* | 53 ⁷ / ₁₆ | 19 ¹³ / ₁₆ | 21 ¹ / ₈ | 21 ¹² / ₁₆ | 18 ¹ / ₂ | 16 ¹⁰ / ₁₆ | 9 | 12 ³ / ₄ | 2 | 17 ¹ / ₈ |
| AMST48CU* | 58 | 19 ¹³ / ₁₆ | 21 ¹ / ₈ | 26 ³ / ₁₆ | 22 ¹⁵ / ₁₆ | 14 ¹⁰ / ₁₆ | 10 ¹³ / ₁₆ | 6 ¹³ / ₁₆ | 2 | 17 ¹ / ₈ |
| AMST48DU* | 53 ⁷ / ₁₆ | 23 ¹ / ₄ | 24 ¹ / ₈ | 21 ¹ / ₁₆ | 18 ¹ / ₄ | 17 ¹¹ / ₁₆ | 12 ⁹ / ₁₆ | 6 ¹⁵ / ₁₆ | 2 | 20 ³ / ₈ |
| AMST06DU* | 58 | 23 ¹ / ₄ | 24 ¹ / ₈ | 26 | 22 3/4 | 17 ¹¹ / ₁₆ | 12 ⁹ / ₁₆ | 13 ¹³ / ₁₆ | 2 | 20 ³ / ₈ |