

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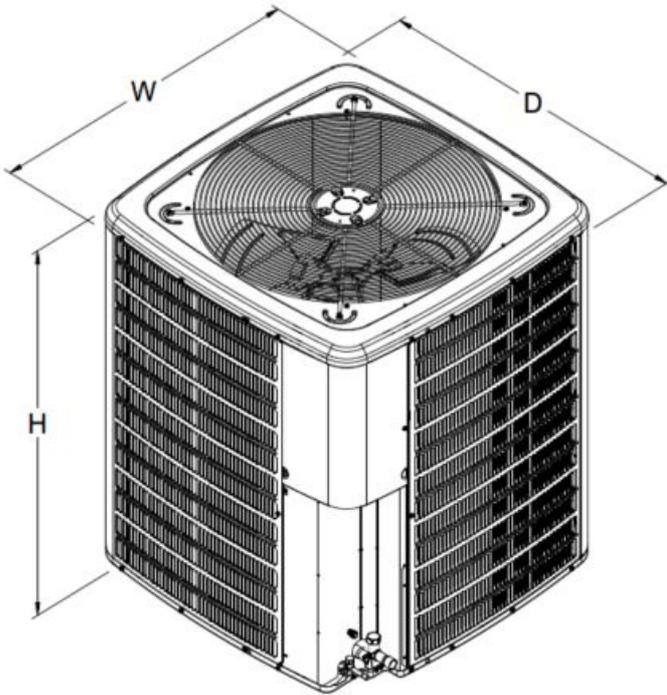
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MODEL	DIMENSIONS		
	W"	D"	H"
GSZH501810A*	29	29	39½
GSZH502410A*	35½	35½	35½
GSZH503010A*	35½	35½	39½
GSZH503610A*	35½	35½	39½
GSZH504210A*	35½	35½	35½
GSZH504810A*	35½	35½	36½
GSZH506010A*	35½	35½	41½



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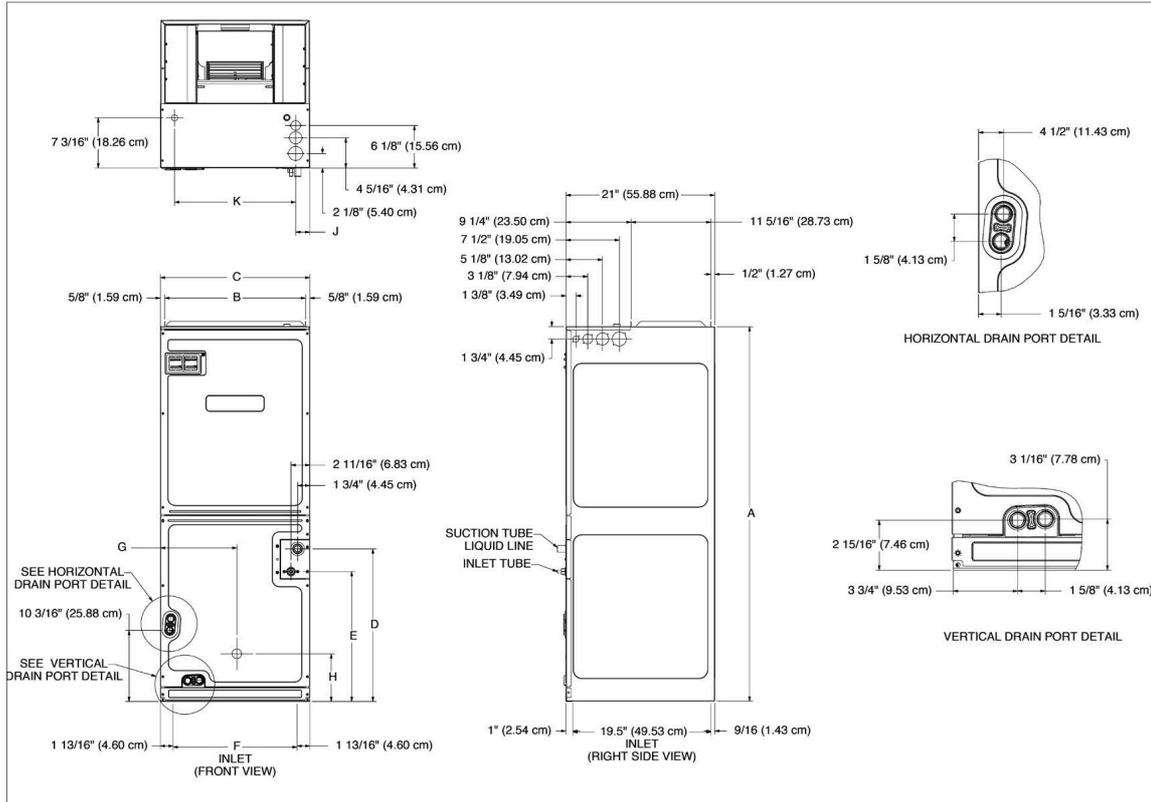
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MODEL	A"	B"	C"	D"	E"	F"	G"	H"	J"	K"
AMST24BU*	45	16 <sup>5</sup> / <sub>16</sub>	17 <sup>9</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>4</sub>	12	12 <sup>1</sup> / <sub>2</sub>	9	12 <sup>9</sup> / <sub>16</sub>	2	13 <sup>3</sup> / <sub>8</sub>
AMST30BU*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



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