

HRG15**S1R

SPECIFICATIONS

Compressor

- High-efficiency scroll compressor
- R410A refrigerant
- Grommet-mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation (optional accessory)
- Internally protected against high temperature motor overload conditions

Cabinet

- Full metal louvered construction to protect the coil
- Corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- External gauge ports for easy service
- Removable service panel for internal access

Design

- Designed to perform in temperatures up to 125°F
- Designed to perform in temperatures down to 0°F

Coils

- Total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design
- Lanced fins for maximum heat transfer
- Factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow

Components

- Factory installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Factory installed filter dryer
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set
- Discharge muffler for quiet operation
- Reduced noise during defrost

Comfort-Caire®

SPLIT SYSTEM HEAT PUMP

*15 SEER High Efficiency
Up to 18.2 SEER & 10.6 HSPF
Up to 16.9 SEER2 & 9 HSPF2*



For the latest AHRI system matches,
please visit www.marsdeliversratings.com
or AHRIdirectory.org

Warranty—12 years on compressor, 6 years on parts
(Some limitations apply; see printed warranty for details.)

www.marsdelivers.com

MODEL NUMBER GUIDE

| H | R | G | 15 | 24 | S | 1 | R |
|-----------|-------------------|-------------|------------|----------|----------------------|---------------------------|---------------------|
| Heat Pump | Residential Split | 'Green' Gas | SEER 15 | Capacity | Scroll Compressor | Power 1 = 208/230-1-60 | Series/ Revision |

ELECTRICAL AND PHYSICAL DATA

| Model | Voltage/Hz/Phase | Voltage Range | Min. Circuit Amp. | Max. Over Current Device (amps) | Compressor | | Outdoor Fan Motor | | |
|------------|------------------|---------------|-------------------|---------------------------------|-------------------|---------------------|-------------------|----------|----------|
| | | | | | Rated Load (Amps) | Locked Rotor (Amps) | Full Load (Amps) | Rated HP | Nom. RPM |
| HRG1518S1R | 208-230/60/1 | 197-253 | 13.6 | 20 | 10.3 | 45.7 | 0.7 | 1/8 | 825 |
| HRG1524S1R | 208-230/60/1 | 197-253 | 15.1 | 25 | 11.5 | 59.5 | 0.7 | 1/8 | 825 |
| HRG1530S1R | 208-230/60/1 | 197-253 | 15.6 | 25 | 11.7 | 71.3 | 1.0 | 1/6 | 825 |
| HRG1536S1R | 208-230/60/1 | 197-253 | 17.8 | 30 | 13.1 | 83.1 | 1.4 | 1/5 | 825 |
| HRG1542S1R | 208-230/60/1 | 197-253 | 25.9 | 40 | 18.6 | 110.0 | 2.6 | 1/3 | 825 |
| HRG1548S1R | 208-230/60/1 | 197-253 | 33.9 | 50 | 25.0 | 120.0 | 2.6 | 1/3 | 825 |
| HRG1560S1R | 208-230/60/1 | 197-253 | 32.5 | 50 | 23.9 | 124.5 | 2.6 | 1/3 | 825 |

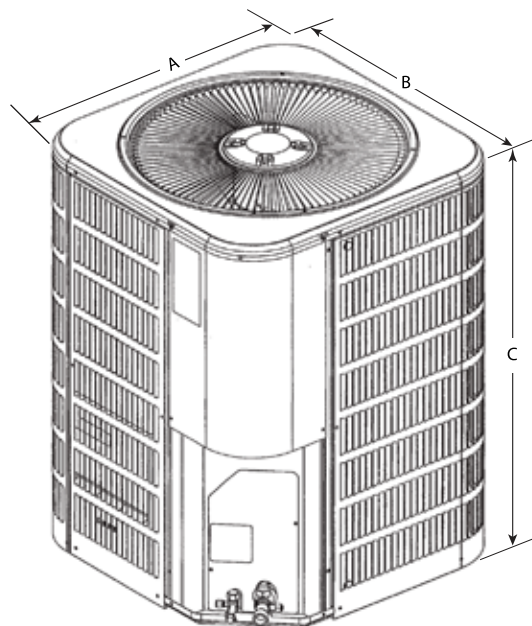
DIMENSIONS (IN.)

| Model No. | Dimensions (inch) | | | Shipping Weight (lbs.) |
|------------|-------------------|-----------|------------|------------------------|
| | A - Width | B - Depth | C - Height | |
| HRG1518S1R | 28.25 | 28.25 | 43 | 185 |
| HRG1524S1R | 28.25 | 28.25 | 43 | 185 |
| HRG1530S1R | 28.25 | 28.25 | 33 | 185 |
| HRG1536S1R | 32.25 | 32.25 | 33 | 220 |
| HRG1542S1R | 32.25 | 32.25 | 38 | 250 |
| HRG1548S1R | 32.25 | 32.25 | 38 | 250 |
| HRG1560S1R | 32.25 | 32.25 | 43 | 260 |

Note:

Dimensions listed are unit sizes w/o packaging

Weights listed are unit weights with packaging



NOTE:

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SOUND RATINGS

| Model | Sound Power ¹ | Estimated Sound Pressure (dBA) ² | | |
|------------|--------------------------|---|--------------------------|----------------------------|
| | | Approximate Distance ³ | | |
| | | One Meter (3.3 feet) | Two Meters (6.6 feet) | Three Meters (9.8 feet) |
| HRG1518S1R | 74 | 66 | 60 | 56 |
| HRG1524S1R | 74 | 66 | 60 | 56 |
| HRG1530S1R | 74 | 66 | 60 | 56 |
| HRG1536S1R | 75 | 67 | 61 | 57 |
| HRG1542S1R | 78 | 70 | 64 | 60 |
| HRG1548S1R | 79 | 71 | 65 | 61 |
| HRG1560S1R | 79 | 71 | 65 | 61 |

¹ Rated in accordance with AHRI standard 270 (2015)

² Rated in accordance with AHRI standard 275 (2010)

³ Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

REFRIGERATION DATA

| Model | Factory Refrig. Charge (oz.) * | TXV | Refrigerant Line Size | | Outdoor Unit Connection | | Indoor Unit Connection | |
|------------|-----------------------------------|---------|-----------------------|--------|-------------------------|--------|------------------------|--------|
| | | | Suction | Liquid | Suction | Liquid | Suction | Liquid |
| HRG1518S1R | 98 | H4TXV01 | 3/4 | 3/8 | 3/4 | 3/8 | 3/4 | 3/8 |
| HRG1524S1R | 96 | H4TXV01 | 3/4 | 3/8 | 3/4 | 3/8 | 3/4 | 3/8 |
| HRG1530S1R | 117 | H4TXV01 | 3/4 | 3/8 | 3/4 | 3/8 | 3/4 | 3/8 |
| HRG1536S1R | 137 | H4TXV02 | 7/8 | 3/8 | 7/8 | 3/8 | 7/8 | 3/8 |
| HRG1542S1R | 162 | H4TXV02 | 7/8 | 3/8 | 7/8 | 3/8 | 7/8 | 3/8 |
| HRG1548S1R | 146 | H4TXV02 | 7/8 | 3/8 | 7/8 | 3/8 | 7/8 | 3/8 |
| HRG1560S1R | 164 | H4TXV03 | 1-1/8 | 3/8 | 1-1/8 | 3/8 | 1-1/8 | 3/8 |

* Factory charged for 15 feet of line set; adjust per installation instructions

Reducer fitting supplied with OD unit

COOLING PERFORMANCE WITH AIR HANDLERS & FURNACES

| Outdoor Model | Indoor Model | Cooling | | | | | | Heating | | | | | |
|---------------|---|---------|-------|------|------|-------------------------------------|----------------------|---------|-------|-------|------|-------|------|
| | Evap. Coil or Air Handler ³ | SEER | SEER2 | EER | EER2 | AHRI Rated Capacity ¹ | Sensible Capacity | HSPF | HSPF2 | 47° | | 17° | |
| | | | | | | | | | | Btuh | COP | Btuh | COP |
| HRG1518S1R | HMG24X1M | 15.5 | 14.7 | 13.0 | 12.4 | 23200 | 17800 | 9.6 | 8.0 | 22200 | 3.72 | 14000 | 2.54 |
| HRG1524S1R | HMG24X1M | 15.5 | 14.7 | 13.0 | 12.4 | 23200 | 17800 | 9.6 | 8.0 | 22200 | 3.72 | 14000 | 2.54 |
| HRG1530S1R | HMG30X1M | 15.0 | 14.4 | 12.2 | 12.0 | 28400 | 22400 | 9.2 | 8.0 | 27800 | 3.56 | 18000 | 2.52 |
| HRG1536S1R | HMG36X1M | 15.5 | 14.7 | 12.5 | 12.4 | 35600 | 27000 | 9.6 | 8.0 | 34000 | 3.62 | 22400 | 2.56 |
| HRG1542S1R | HMG42X1M | 15.0 | 14.4 | 12.2 | 12.0 | 40500 | 30800 | 9.2 | 7.8 | 39000 | 3.40 | 25000 | 2.46 |
| HRG1548S1R | HMG48X1M | 15.4 | 14.7 | 12.5 | 12.4 | 47000 | 35400 | 9.8 | 8.2 | 46500 | 3.64 | 30400 | 2.64 |
| HRG1560S1R | HMG60X1M | 15.1 | 14.3 | 12.5 | 11.7 | 56500 | 41500 | 9.6 | 8.0 | 54000 | 3.50 | 35000 | 2.56 |

Note:

¹ Required to achieve AHRI rating. If NA (not applicable) is in the piston column then TXV is required.

² Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

³ A blower time delay relay is standard on all Comfort-Aire/Century furnaces and air handler products

ACCESSORIES

| Description | Where Used | Kit Number | Purpose |
|--|-------------------|------------------------|--|
| Liquid Line Solenoid | All models | 60M52 | Prevents liquid migration to the compressor especially for high liquid riser applications |
| Low Ambient (cooling operation) | All models | 54M89 | Enables cooling demand down to 30 °F. Will require freeze stat, CC heater and TXV |
| Mild Ambient (heating operation) | All models | 11B97 | Enables heating demand above 60 °F ambient |
| Cold Weather | All models | 1.921145 | To allow unit to operate at very low ambient conditions (older models). Board integrated feature on new models |
| Fossil Fuel Kit (Heat Pump Only) | All models | 1.841185 (AFOSL500) | Required for furnace with heat pump installations |
| Hard Start | 24 & 36 | 10J42 | Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas |
| | 48 & 60 | 81J69 | |
| Crankcase Heater | 18, 24, 30 | 93M04 | Prevents liquid migration to compressor in cold weather |
| | 36, 42, 48, 60 | Facory Installed | |
| Sound Cover | 18, 24, 30, 36 | 14W00 | Lowers compressor sound level |
| | 42, 48, 60 | 14W01 | |
| Loss of Charge Kit | Factory Installed | | Protects the compressor if refrigerant charge is too low |
| Additional System Accessories (indoor section) | | | |
| TXV Kit | 18, 24, 30 | H4TXV01 | TXVs provide superior refrigerant flow control, comfort and efficiency compared to pistons |
| | 36, 42, 48 | H4TXV02 | |
| | 60 | H4TXV03 | |
| Outdoor Thermostat - Electric Heat | All models | 10Z23 (56A87) | Prevents electric heat operation above specific ambient conditions |
| Outdoor Thermostat - Mounting Box | All models | 31461 | Mounting box for outdoor thermostat |
| Freezestat | All models | 93G35 | Protects the compressor at low suction pressure conditions |
| Overflow switch | All models | 11U75 | Turn the system off, if condensate water overflows due to clogged drain pipes |
| Single Point Power Supply | All models | 21H39 | Provide single power source in one junction box |
| Auxiliary Blower Relay | All models | 85W66 | Maybe required to select multiple indoor blower speeds |

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.