Standard Features

- Energy-efficient compressor
- Quiet condenser fan system
- Copper tube/aluminum fin coil
- For use with R-22 refrigerant and charged with inert gas for shipping
- Factory-installed bi-flow liquid line filter drier
- Low-pressure switch
- Time-initiated, temperature-terminated defrost control
- Service valves with sweat connections and easy-access gauge ports
- Contactor with lug connection
- Ground lug connection
- ETL Listed

Cabinet Features

- Louver design sound control top
- Steel louver coil guard
- Heavy-gauge, galvanized-steel cabinet with rust-resistant screws
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)
## Product Specifications

### Nomenclature

<table>
<thead>
<tr>
<th>G</th>
<th>S</th>
<th>H</th>
<th>13</th>
<th>036</th>
<th>1</th>
<th>A</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4,5</td>
<td>6,7,8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

**Brand**
- G: Goodman® (Standard Feature Set Models)

**Product Category**
- S: Split System

**Unit Type**
- C: Condenser R-22
- H: Heat Pump R-22

**Efficiency**
- 13: 13 SEER

**Electrical**
- 1: 208/230 V, 1 Phase, 60 Hz

**Nominal Capacity**
- 018: 1½ Tons
- 024: 2 Tons
- 030: 2½ Tons
- 036: 3 Tons
- 042: 3½ Tons
- 048: 4 Tons
- 060: 5 Tons

* Neither used for order entry or inventory management.
## Specifications

<table>
<thead>
<tr>
<th>CAPACITIES AND RATINGS</th>
<th>GSH13 0181C*</th>
<th>GSH13 0241C*</th>
<th>GSH13 0301C*</th>
<th>GSH13 0361C*</th>
<th>GSH13 0421B*</th>
<th>GSH13 0481B*</th>
<th>GSH13 0601A*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonnage</td>
<td>1½</td>
<td>2</td>
<td>2½</td>
<td>3</td>
<td>3½</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Decibels</td>
<td>73</td>
<td>71</td>
<td>72</td>
<td>71</td>
<td>76</td>
<td>76</td>
<td>77</td>
</tr>
</tbody>
</table>

### Compressor
- **RLA**: 8.3, 10.8, 13.5, 14.1, 19.2, 19.9, 25.0
- **LRA**: 40.3, 56.0, 68.0, 75.0, 112.0, 104.0, 148.0
- **Type**: Scroll

### Condenser Fan Motor
- **Horsepower**: 1/8, 1/8, 1/8, ¼, ¼, ¼, 1/6
- **FLA**: 0.7, 0.7, 0.7, 1.5, 1.5, 1.5, 1.1

### Refrigerant System
- **Line Size**
  - Liquid: ⅜" ⅜" ⅜" ⅜" ⅜" ⅜" ⅜"
  - Suction: ¾" ¾" ¾" ⅞" 1⅛" 1⅛" 1⅛"
- **Valve Type**: Sweat
- **Charging**: 127, 122, 130, 188, 246, 208, 233

### Electrical Data
- **Minimum Circuit Ampacity**: 11.1, 14.2, 17.6, 19.1, 25.5, 26.4, 32.3
- **Max. Overcurrent Protection**: 15, 25, 30, 30, 40, 45, 50
- **Min / Max Volts**: 197/253, 197/253, 197/253, 197/253, 197/253, 197/253
- **Electrical Conduit Size**: ½" or ¼" ½" or ¼" ½" or ¾" ½" or ¾" ½" or ¾" ½" or ¾" ½" or ¾"

### Equipment Weight (lbs)
- **134**: 133, 140, 170, 192, 202, 276
- **151**: 150, 157, 188, 210, 220, 298

### Notes
- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply ¼" to ½" adapters for suction line connections.
- Charge to be added for 15’ of ⅜” liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.
### AHRI Ratings

<table>
<thead>
<tr>
<th>Outdoor Units</th>
<th>Indoor Units</th>
<th>Cooling Capacity (BTU/h)</th>
<th>TVA Ratings³</th>
<th>Heating Capacity (BTU/h)</th>
<th>CFM</th>
<th>AHRI #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coils/Air Handlers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>Sens.</td>
<td>SEER¹</td>
<td>EER²</td>
<td>Total</td>
<td>Sens.</td>
</tr>
<tr>
<td>GSH130181(B,C)*</td>
<td>AR<em>F182416B</em></td>
<td>17,600</td>
<td>13,100</td>
<td>13.00</td>
<td>11.00</td>
<td>16,300</td>
</tr>
<tr>
<td>GSH130241(B,C)*</td>
<td>AR<em>F182416B</em>+TXV</td>
<td>23,000</td>
<td>17,800</td>
<td>13.00</td>
<td>11.00</td>
<td>21,400</td>
</tr>
<tr>
<td>GSH130301(B,C)*</td>
<td>AR<em>F363616B</em></td>
<td>27,800</td>
<td>20,200</td>
<td>13.00</td>
<td>11.00</td>
<td>25,800</td>
</tr>
<tr>
<td>GSH130361(B,C)*</td>
<td>AR<em>F374316B</em></td>
<td>33,600</td>
<td>26,200</td>
<td>13.00</td>
<td>11.00</td>
<td>31,000</td>
</tr>
<tr>
<td>GSH130363A*</td>
<td>AR<em>F374316B</em></td>
<td>33,600</td>
<td>26,200</td>
<td>13.00</td>
<td>11.00</td>
<td>31,000</td>
</tr>
<tr>
<td>GSH130421B*</td>
<td>AR<em>F364216B</em></td>
<td>40,000</td>
<td>29,800</td>
<td>13.00</td>
<td>11.00</td>
<td>37,200</td>
</tr>
<tr>
<td>GSH130481B*</td>
<td>AR<em>F486016B</em></td>
<td>45,000</td>
<td>33,800</td>
<td>13.00</td>
<td>11.00</td>
<td>41,500</td>
</tr>
<tr>
<td>GSH130483B*</td>
<td>AR<em>F486016B</em></td>
<td>45,000</td>
<td>33,800</td>
<td>13.00</td>
<td>11.00</td>
<td>41,500</td>
</tr>
<tr>
<td>GSH130484A*</td>
<td>AR<em>F486016B</em></td>
<td>45,000</td>
<td>33,800</td>
<td>13.00</td>
<td>11.00</td>
<td>41,500</td>
</tr>
<tr>
<td>GSH130601A*</td>
<td>AR<em>F486016B</em></td>
<td>55,500</td>
<td>41,000</td>
<td>13.00</td>
<td>11.00</td>
<td>51,500</td>
</tr>
<tr>
<td>GSH130603A*</td>
<td>AR<em>F486016B</em></td>
<td>55,500</td>
<td>41,000</td>
<td>13.00</td>
<td>11.00</td>
<td>51,500</td>
</tr>
<tr>
<td>GSH130604A*</td>
<td>AR<em>F486016B</em></td>
<td>55,500</td>
<td>41,000</td>
<td>13.00</td>
<td>11.00</td>
<td>51,500</td>
</tr>
<tr>
<td>GSH130604AC</td>
<td>AR<em>F486016B</em></td>
<td>55,500</td>
<td>41,000</td>
<td>13.00</td>
<td>11.00</td>
<td>51,500</td>
</tr>
</tbody>
</table>

¹ BTU/h ² Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240 @ 80°F/ 67°F/ 95°F ³ Energy Efficiency Ratio @ 80°F/ 67°F/ 95°F ⁴ TVA Rating: BTU/h @ 75°F/ 63°F - 95°F ⁵ HSPF = Heating Seasonal Performance Factor

**Notes**
- Always check the S&R plate for electrical data on the unit being installed.
- When matching outdoor unit to indoor unit, use the piston supplied with outdoor unit or that specified on the piston kit chart supplied with the indoor unit.
### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSH130181C</td>
<td>26 26 32(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130241C</td>
<td>26 26 32(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130301C</td>
<td>26 26 34(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130361C</td>
<td>29 29 38(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130421B</td>
<td>29 29 32(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130481B</td>
<td>29 29 34(\frac{3}{4})</td>
</tr>
<tr>
<td>GSH130601A</td>
<td>35(\frac{3}{4}) 35(\frac{3}{4}) 34(\frac{3}{4})</td>
</tr>
</tbody>
</table>
High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

**Warning**

- High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**NOTE 1**

1. TO INDOOR UNIT LOW VOLTAGE TERMINAL BLOCK & INDOOR THERMOSTAT.
2. START ASSIST FACTORY EQUIPPED WHEN REQUIRED.

**NOTE 2**

- USE COPPER CONDUCTOR ONLY.

**NOTE 3**

CONTROL SHOWN WITH THERMOSTAT IN 'OFF' POSITION.

**NOTE 4**

- USE N.E.C. CLASS 2 WIRE EQUIPMENT GROUND SEE NOTE 4

ALTERNATE DOUBLE POLE CONTACTOR

COMPRESSOR (OPTIONAL)

**NOTE**

- ALTERNATE DOUBLE POLE CONTACTOR ONLY

CONTROL BOX

OUTDOOR POWER SUPPLY

SEE RATING PLATE

ALTERNATE DOUBLE POLE CONTACTOR ONLY

COMPRESSOR (OPTIONAL)
## Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>GSH13 018</th>
<th>GSH13 024</th>
<th>GSH13 030</th>
<th>GSH13 036</th>
<th>GSH13 042</th>
<th>GSH13 048</th>
<th>GSH13 060</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABK-20</td>
<td>Anchor Bracket Kit *</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ASC01</td>
<td>Anti-Short Cycle Kit</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CSR-U-1</td>
<td>Hard-start Kit</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CSR-U-3</td>
<td>Hard-start Kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSK01A¹</td>
<td>Freeze Protection Kit</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>OT/EHR18-60</td>
<td>Emergency Heat Relay kit</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>OT18-60A³</td>
<td>Outdoor Thermostat with Lockout Stat</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* Contains 20 brackets; four brackets needed to anchor unit to pad
¹ Installed on indoor coil
² Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity.
³ Condensing units and heat pumps with reciprocating compressors require the use of start-assist components when used in conjunction with an indoor coil using a non-bleed thermal expansion valve refrigerant metering device. The TXV should always be sized based on the tonnage of the outdoor unit.
Product Specifications

Notes