Goodman
Air Conditioning & Heating

# GSX16

*Cooling Capacity: 18,000 - 57,000*

## *Energy-Efficient Split System Air Conditioner 1½ To 5 Tons Up to 16 SEER*

***Contents***




### *Standard Features*

- Energy-efficient compressor
- Factory-installed filter drier
- Fully charged for 15' of tubing length
- Copper tube/aluminum fin coil
- Service valves with sweat connections and easy-to-access gauge ports
- Contactor with lug connection
- Ground lug connection
- AHRI Certified
- ETL Listed

### *Cabinet Features*

- Heavy-gauge galvanized-steel cabinet with a louvered sound control top
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Wire fan discharge grille
- Steel louver coil guard
- 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.)

ASK ABOUT ENERGY STAR

Proper sizing and installation of equipment is critical to achieving optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov.

10 YEAR PARTS LIMITED WARRANTY*

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

| G | S | X | 16 | 036 | 1 | AA |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4,5 | 6,7,8 | 9 | 10,11 |

**Brand**

G Goodman® Brand

**Product Category**

S Split System

**Unit Type**

X Condenser R-410A

Z Heat Pump R-410A

**Efficiency**

| | | | |
|---|---|---|---|
| 13 | 13 SEER | 16 | 16 SEER |
| 14 | 14 SEER | 18 | 18 SEER |

**Nominal Capacity**

| | | | | | |
|---|---|---|---|---|---|
| 018 | 1½ Tons | 030 | 2½ Tons | 042 | 3½ Tons |
| 019 | 1½ Tons | 031 | 2½ Tons | 043 | 3½ Tons |
| 024 | 2 Tons | 036 | 3 Tons | 048 | 4 Tons |
| 025 | 2 Tons | 037 | 3 Tons | 060 | 5 Tons |

**Electrical**

1 208/230 V, 1 Phase, 60 Hz

2 220/240 V, 1 Phase, 50 Hz

3 208/230 V, 3 Phase, 60 Hz

**Engineering**

Major & Minor Revisions
(not used for inventory or ordering)

| | GSX16 0181F* | GSX16 0241F* | GSX16 0301F* | GSX16 0311A* | GSX16 0361F* | GSX16 0371A* | GSX16 0421F* | GSX16 0481F* | GSX16 0601F* | GSX16 0611F* |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAPACITIES** | | | | | | | | | | |
| Nominal Cooling (BTU/h) | 18,000 | 23,600 | 29,000 | 30,000 | 34,800 | 36,000 | 42,000 | 45,500 | 54,000 | 57,000 |
| SEER | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Decibels | 71.5 | 71.5 | 71.5 | 73.5 | 71.5 | 73 | 73 | 73 | 73 | 73 |
| **COMPRESSOR** | | | | | | | | | | |
| RLA | 9.0 | 13.5 | 12.8 | 12.8 | 14.1 | 15.4 | 17.9 | 17.9 | 21.4 | 25 |
| LRA | 46 | 58.3 | 64 | 64 | 77 | 83.9 | 112 | 112 | 135 | 134 |
| **CONDENSER FAN MOTOR** | | | | | | | | | | |
| Horsepower | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/4 | 1/3 | 1/4 |
| FLA | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.30 | 2.80 | 1.30 |
| **REFRIGERATION SYSTEM** | | | | | | | | | | |
| Refrigerant Line Size [1] | | | | | | | | | | |
| Liquid Line Size ("O.D.) | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" |
| Suction Line Size ("O.D.) | ¾" | ¾" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" |
| Refrigerant Connection Size | | | | | | | | | | |
| Liquid Valve Size ("O.D.) | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" | ⅜" |
| Suction Valve Size ("O.D.) | ¾" | ¾" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" | ⅞" |
| Valve Type | Sweat | Sweat | Sweat | Sweat | Sweat | Sweat | Sweat | Sweat | Sweat | Sweat |
| Refrigerant Charge | 78 | 78 | 91 | 94 | 94 | 93 | 110 | 121 | 240 | 125 |
| **ELECTRICAL DATA** | | | | | | | | | | |
| Voltage-Phase (60 Hz) | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 | 208/230-1 |
| Minimum Circuit Ampacity [2] | 12.2 | 17.8 | 17.0 | 17.0 | 18.6 | 20.2 | 23.3 | 23.7 | 29.6 | 32.6 |
| Max. Overcurrent Protection [3] | 20 | 30 | 25 | 25 | 30 | 35 | 40 | 40 | 50 | 50 |
| Min / Max Volts | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 | 197/253 |
| Electrical Conduit Size | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" | ½" or ¾" |
| **EQUIPMENT WEIGHT (LBS)** | 145 | 142 | 149 | 155 | 162 | 182 | 206 | 219 | 279 | 291 |
| **SHIP WEIGHT (LBS)** | 163 | 160 | 167 | 179 | 180 | 204 | 228 | 241 | 301 | 314 |
| **ENERGY STAR® CERTIFIED** | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | ENERGY STAR | NO |

**ENERGY STAR NOTES**

- Proper sizing and installation of equipment is critical to achieving optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.
- The www.energystar.gov website provides up-to-date system combinations certified to meet ENERGY STAR requirements. See Pages 24-25 for all ENERGY STAR certified combinations as of this document's revision date.

[1] Tested and rated in accordance with AHRI Standard 210/240

[2] Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

[3] Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

**NOTES**

- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply ⅞" to 1⅛" adapters for suction line connections.
- Unit is charged with refrigerant 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.