



Air Conditioning & Heating

# GSC COMMERCIAL

## SPLIT SYSTEM AIR CONDITIONER

**GSC13: 3-5 TONS**

**GSC10: 7½ & 10 TONS**

### Standard Features

- Energy-efficient compressor
- Quiet operating top discharge
- High-efficiency copper tube/aluminum fin coil
- For use with R-22 refrigerant and charged with inert gas for shipping
- Brass liquid and suction service valves
- Factory-installed filter drier
- Contactor with lug connections
- Ground lug connection
- ETL Listed

### Cabinet Features

- Goodman® brand sound control top design
- Steel louver coil guard protects the coil from damage and adds strength to unit
- Bottom pan rails elevate unit above slab
- Heavy-gauge galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



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\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com).



NOMENCLATURE

	G	S	C	10	120	3	A	A	
	1	2	3	4,5	6,7,8	9	10	11	
<b>Brand</b>	G Goodman® brand								<b>Engineering *</b> Minor Revision
<b>Product Category</b>	S Split System								<b>Engineering *</b> Major Revision
<b>Unit Type</b>	C Condenser R-22 H Heat Pump R-22								<b>Electrical</b> 3 = 208/230 V, 3 Phase, 60 Hz 4 = 460 V, 3 Phase, 60 Hz
<b>Efficiency</b>	13 13 SEER 10 11.2 EER								<b>Nominal Capacity</b> 036 3 Tons    090 7½ Tons 048 4 Tons    120 10 Tons 060 5 Tons

## GSC13 COMMERCIAL PRODUCT SPECIFICATIONS

	GSC13 0363C*	GSC13 0483B*	GSC13 0484B*	GSC13 0603B*	GSC13 0604B*
<b>COOLING CAPACITIES</b>					
Tonnage	3	4	4	5	5
SEER	13	13	13	13	13
Decibels	74	76	76	77	77
<b>COMPRESSOR</b>					
RLA / LRA	9.92/ 73	12.2/93	5.8 / 48	15.4/114	7.1/58
Type	Scroll	Scroll	Scroll	Scroll	Scroll
<b>CONDENSER FAN MOTOR</b>					
Horsepower	1/6	1/4	1/4	1/4	1/4
FLA	1.5	1.5	0.8	1.5	0.8
<b>REFRIGERATION SYSTEM</b>					
Liquid Valve Size ("O.D.)	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Valve Size ("O.D.)	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Refrigerant Charge	83	92	92	120	120
Valve Type	Sweat	Sweat	Sweat	Sweat	Sweat
<b>ELECTRICAL DATA</b>					
AC Volts/ Hz	208-230/ 60	208-230/ 60	460/ 60	208-230/ 60	460/ 60
Min. Circuit Ampacity <sup>1</sup>	13.9	16.8	8.1	20.8	9.7
Max. Overcurrent Device <sup>2</sup>	20	25	15	35	15
Min / Max Volts	197/253	197/253	414/506	197/253	414/506
Electrical Conduit Size	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
<b>SHIP WEIGHT (LBS)</b>	182	189	207	196	242

<sup>1</sup> Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

<sup>2</sup> Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

<sup>3</sup> Installer will need to supply 3/4" to 3/8" adapters for suction line connections.

<sup>4</sup> Installer will need to supply 3/8" to 1 1/8" adapters for suction line connections.

### NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

## GSC10 COMMERCIAL PRODUCT SPECIFICATIONS

	GSC10 0903A*	GSC10 0904AC	GSC10 1203B*	GSC10 1204B*
<b>COOLING CAPACITIES</b>				
Tonnage	7½	7½	10	10
EER/IEER	11.2/11.5	11.2/11.5	11.2/11.2	11.2/11.2
Decibels	84	84	84	84
<b>COMPRESSOR</b>				
RLA / LRA	25.6 / 196	12.8 / 100	30.1 / 225	15.5 / 114
Type	Scroll	Scroll	Scroll	Scroll
<b>CONDENSER FAN MOTOR</b>				
Horsepower	1	1	1	1
FLA	5.6	3.5	5.6	3.5
<b>REFRIGERATION SYSTEM</b>				
Liquid Valve Size ("O.D.)	⅝"	⅝"	⅝"	⅝"
Suction Valve Size ("O.D.) (7½ tons)	1⅜"	1⅜"	1⅜"	1⅜"
Suction Valve Size ("O.D.) (10 tons)	1⅜"	1⅜"	1⅜"	1⅜"
Refrigerant Charge	35	35	35	35
Valve Type	Sweat	Sweat	Sweat	Sweat
<b>ELECTRICAL DATA</b>				
AC Volts/ Hz	208-230/ 60	460/ 60	208-230/ 60	460/ 60
Min. Circuit Ampacity <sup>1</sup>	37.6	19.5	43.2	22.9
Max. Overcurrent Device <sup>2</sup>	60	30	70	35
Min / Max Volts	197/253	414/ 506	197/253	414/ 506
Electrical Conduit Size	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"
<b>SHIP WEIGHT (LBS)</b>	315	315	334	334

<sup>1</sup> Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

<sup>2</sup> Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

<sup>3</sup> Installer will need to supply ⅝" to ⅝" adapters for suction line connections.

<sup>4</sup> Installer will need to supply ⅝" to 1⅜" adapters for suction line connections.

**NOTES**

- Always check the S&R plate for electrical data on the unit being installed.
- Unit is charged with refrigerant for 15' of ⅝" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

## PERFORMANCE DATA

OUTDOOR UNIT	INDOOR UNITS		COOLING RATINGS				CFM	AHRI #
	COILS/AIR HANDLERS	FURNACES	TOTAL <sup>1</sup>	SENS. <sup>1</sup>	SEER <sup>2</sup>	EER <sup>3</sup>		
GSC130363B*	CA*F3642*6C*+EEP		33,400	24,200	13.0	11.0	1,200	5528487
GSC130483C*	CA*F4961*6A*+EEP		44,500	33,800	13.0	11.0	1,600	5528474
GSC130484BC	CA*F4961*6A*+EEP		44,500	33,800	13.0	11.0	1,600	5528475
GSC130603C*	CA*F4961*6A*+EEP		53,000	38,000	13.0	11.0	1,600	5528477
GSC130604BC	CA*F4961*6A*+EEP		53,000	38,000	13.0	11.0	1,600	5528478

<sup>1</sup> Energy Efficiency Ratio @ 80 °F/67 °F Inside - 95 °F

<sup>2</sup> Integrated Energy Efficiency Ratio

### Notes

Always check the S&R plate for electrical data on the unit being installed.

When matching the outdoor unit to the indoor unit, use the piston supplied with the outdoor unit or that specified on the piston kit chart supplied with the indoor unit.

EEP: Order from Service Dept. Part No. B13707-38 or new Solid State Board B13707-35S. Part No. B13707-38 is not interchangeable with B13707-35S. The Goodman Gas Furnace contains the EEP cooling time delay.

OUTDOOR MODEL	INDOOR COIL	COOLING CAPACITY (BTU/H)		EER <sup>1</sup>	IEER <sup>2</sup>
		TOTAL	SENSIBLE		
GSC100903AD	AR090	87,000	62,640	11.2	11.5
GSC100904AC	AR090	87,000	63,510	11.2	11.5
GSC101203B*	AR120	114,000	82,080	11.2	11.2
GSC101204B*	AR120	114,000	80,940	11.2	11.2

<sup>1</sup> Energy Efficiency Ratio @ 80 °F/67 °F Inside - 95 °F

<sup>2</sup> Integrated Energy Efficiency Ratio

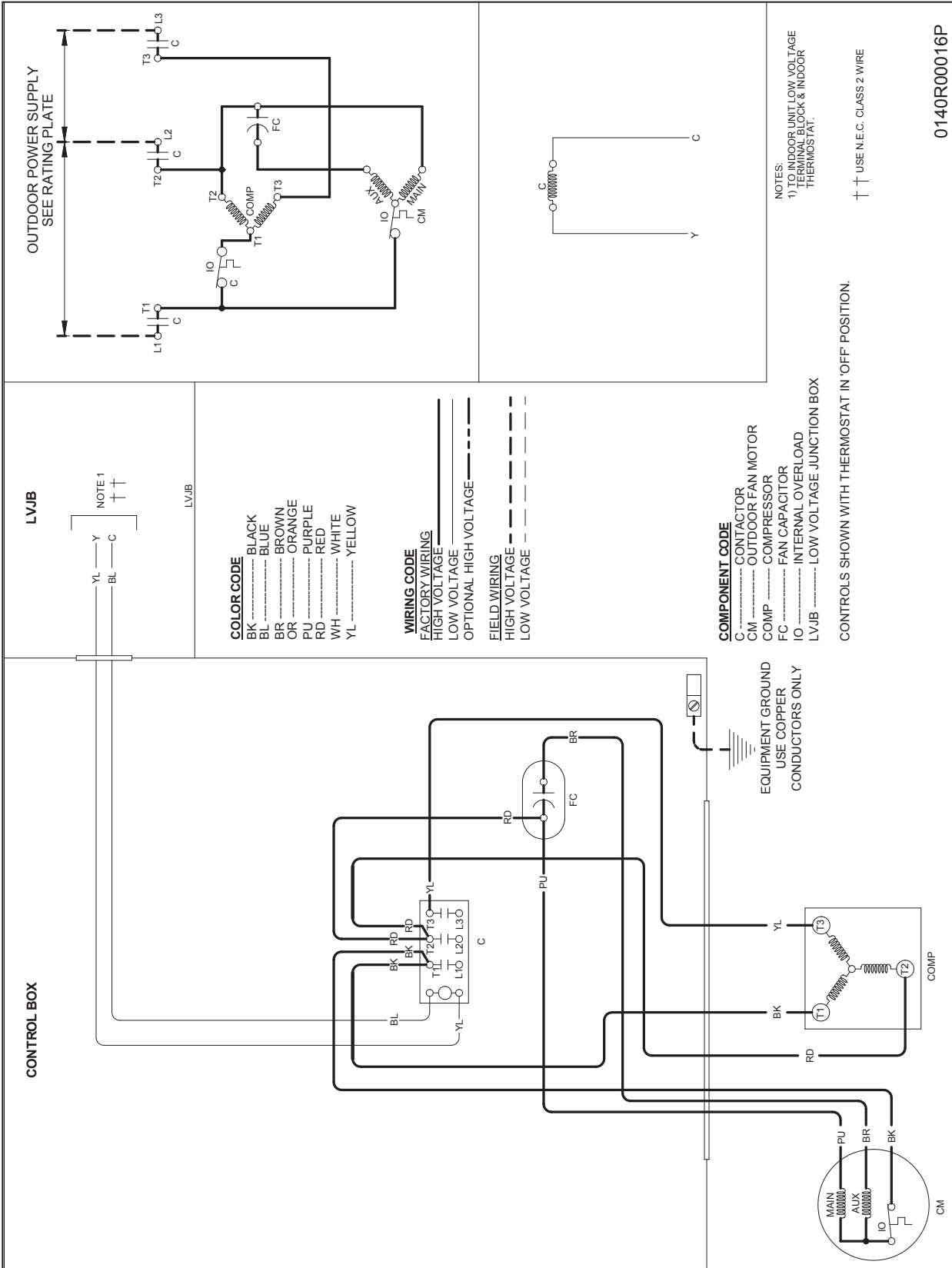
### NOTES

- Always check the S&R plate for electrical data on the unit being installed.

- When matching the outdoor unit to the indoor unit, use the piston supplied with the outdoor unit or that specified on the piston kit chart supplied with the indoor unit.

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# GSC13 WIRING DIAGRAM

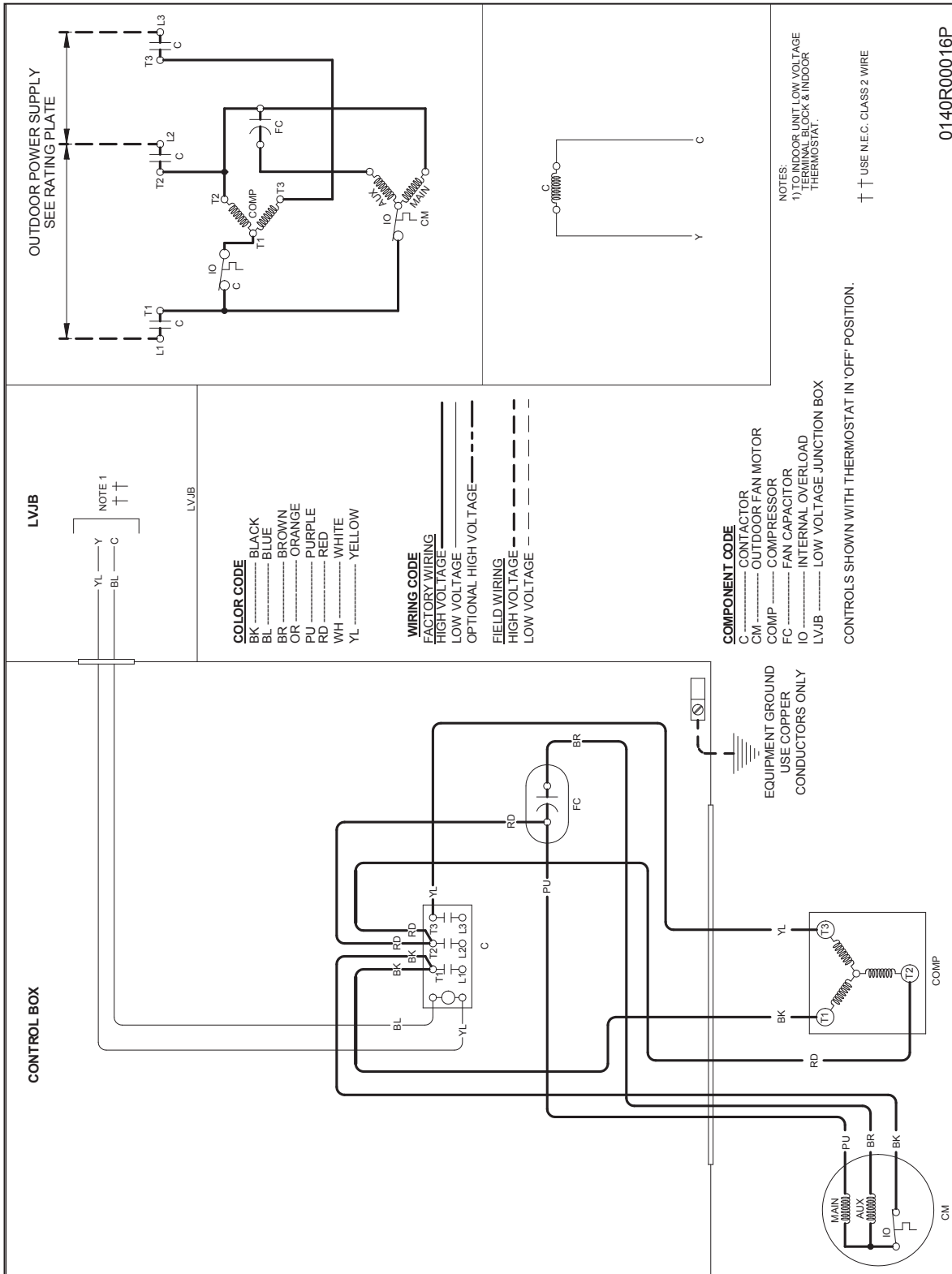


**WARNING**

**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.

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

# GSC10 WIRING DIAGRAM

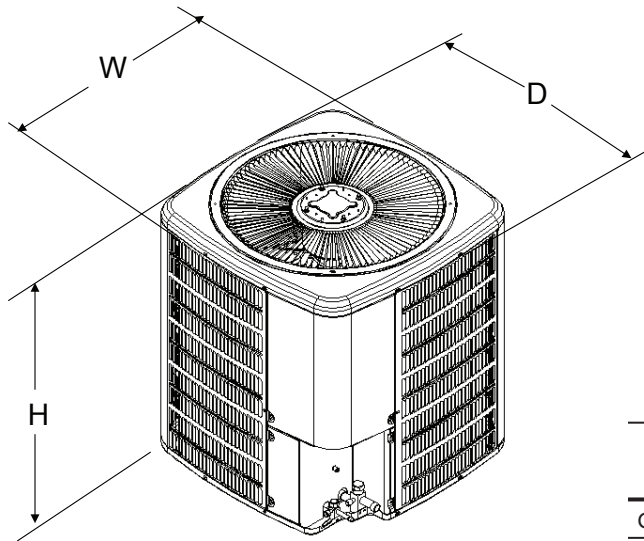


Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

**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.

**DIMENSIONS**



MODEL	DIMENSIONS		
	W"	D"	H"
GSC130363*	29	29	30¼
GSC130483*	29	29	34¼
GSC130484*	29	29	34¼
GSC130603*	29	29	40
GSC130604*	29	29	40
GSC100903*	35½	35½	41½
GSC100904*	35½	35½	41½
GSC101203*	35½	35½	41½
GSC101204*	35½	35½	41½

**ACCESSORIES**

MODEL	DESCRIPTION
ABK-20	Anchor Bracket Kit •
FSK01A <sup>1</sup>	Freeze Protection Kit
HPTD18-60	Digital room thermostat with 1-stage cool/1-stage heat
HPT18-60	Standard room thermostat with 1-stage cool/1-stage heat
LAKT01	Low-Ambient Kit

• Contains 20 brackets; four brackets needed to anchor unit to pad

<sup>1</sup> Installed on indoor coil