



Air Conditioning & Heating

**GMVC95: UP TO 96% AFUE**

**GCVC95: UP TO 95% AFUE**



# GMVC95 & GCVC95

**COMFORTNET™-COMPATIBLE**

**MULTI-POSITION, TWO-STAGE**

**VARIABLE-SPEED GAS FURNACE**

### Standard Features

- Aluminized-steel dual-diameter tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Two-stage gas valve operates with two-stage or single-stage thermostats
- ComfortNet™ Communications System compatible
- Efficient and quiet variable-speed ECM circulator motor
- 120V Silicon Nitride igniter designed for long igniter life
- Furnace control board with self-diagnostics and provisions for electronic air cleaner and 120-volt or 24-volt humidifiers
- Multiple continuous fan speed options for quiet air circulation
- Dual-certified for sealed combustion direct vent (2-pipe) or non-direct vent (1-pipe) applications
- Quiet two-speed induced draft blower
- All models comply with California NOx emissions standards

### Cabinet Features

- Cabinet air leakage ( $Q_{Leak} \leq 2\%$ )
- Fully insulated, heavy-gauge steel cabinet with durable baked-enamel finish
- Foil-faced insulation lines the heat exchanger
- Easy-to-install top venting is standard; alternate flue/vent connections on some models
- Designed for multi-position installation; GCVC95 is downflow
- Airtight solid bottom for side return applications and easy-cut tabs for effortless removal in bottom air inlet applications
- Convenient left or right connection for gas/electric service

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\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home), 10-Year Unit Replacement Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

NOMENCLATURE

|                          | G  | M | V | C | 95  | 070   | 4  | C  | X  | A  | A   |
|--------------------------|--|---|---|---|-----|-------|----|----|----|----|---|
|                          | 1  | 2 | 3 | 4 | 5,6 | 7,8,9 | 10 | 11 | 12 | 13 | 14  |
| <b>Brand</b>             | G Goodman® Brand   |   |   |   |     |       |    |    |    |    | <b>Revisions</b>  |
|                          |  |   |   |   |     |       |    |    |    |    | Major and minor revisions   |
| <b>Airflow Direction</b> | C Downflow/Horizontal<br>D Dedicated Downflow<br>H High Airflow<br>K Dedicated Upflow<br>M Upflow/Horizontal       |   |   |   |     |       |    |    |    |    | <b>NOx</b>  |
|                          |  |   |   |   |     |       |    |    |    |    | N Natural Gas<br>X Low NOx  |
| <b>Description/Motor</b> | V Two-Stage/Variable-speed<br>H Two-Stage/Multi-speed<br>S Single-Stage/Multi-speed<br>E Two-Stage/High-Efficiency |   |   |   |     |       |    |    |    |    | <b>Cabinet Width</b>  |
|                          |  |   |   |   |     |       |    |    |    |    | A 14"<br>B 17½"<br>C 21"<br>D 24½"  |
| <b>SystemType</b>        | C ComfortNet™ Communicating System   |   |   |   |     |       |    |    |    |    | <b>Maximum CFM @ 0.5" ESP</b>   |
|                          |  |   |   |   |     |       |    |    |    |    | 3 1200<br>4 1600<br>5 2000  |
| <b>AFUE</b>              | 95 95%<br>8 80%<br>9 90%+  |   |   |   |     |       |    |    |    |    | <b>MBTU/h</b>   |
|                          |  |   |   |   |     |       |    |    |    |    | 045: 45,000<br>070: 70,000<br>090: 90,000<br>115: 115,000<br>140: 140,000 |



**SPECIFICATIONS**

|   | GMVC95<br>0453BX | GMVC95<br>0704CX | GMVC95<br>0905CX | GMVC95<br>0905DX | GMVC95<br>1155DX | GVCV95<br>0714CX | GVCV95<br>0915DX | GVCV95<br>1155DX |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>HEATING CAPACITY</b>                   |                  |                  |                  |                  |                  |                  |                  |                  |
| High Fire Input <sup>1</sup>              | 45,000           | 68,000           | 90,000           | 90,000           | 113,000          | 68,000           | 90,000           | 113,000          |
| High Fire Output <sup>1</sup>             | 43,200           | 65,300           | 86,500           | 86,500           | 108,600          | 64,600           | 85,500           | 105,100          |
| Low Fire Input <sup>1</sup>               | 31,500           | 47,600           | 63,000           | 63,000           | 79,100           | 47,600           | 63,000           | 79,100           |
| Low Fire Output <sup>1</sup>              | 30,300           | 45,700           | 60,500           | 60,500           | 76,000           | 45,200           | 59,900           | 73,600           |
| AFUE <sup>2</sup>                         | 96.1             | 96.1             | 96.1             | 96.1             | 96.1             | 95               | 95               | 93               |
| Tons AC @ 0.5" ESP                        | 1.5 - 3.0        | 1.5 - 4.0        | 2.0 - 5.0        | 2.0 - 5.0        | 2.0 - 5.0        | 1.5 - 4.0        | 2.0 - 5.0        | 2.0 - 5.0        |
| Temperature Rise Range (°F)               | 30 - 60          | 30 - 60          | 30 - 60          | 30 - 60          | 35 - 65          | 25-55            | 25-55            | 40 - 70          |
| <b>CIRCULATOR BLOWER</b>                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Size (D x W)                              | 10" X 8"         | 10" X 10"        | 11" X 10"        | 11" X 10"        | 11" X 10"        | 10" X 10"        | 11" X 10"        | 11" X 10"        |
| Horsepower @ 1050 RPM                     | ½                | ¾                | 1                | 1                | 1                | ¾                | 1                | 1                |
| Speed                                     | Variable         | Variable         | Variable         | Variable         | Variable         | Variable         | Variable         | Variable         |
| Vent Diameter <sup>3</sup>                | 2"               | 2"               | 3"               | 3"               | 3"               | 2"               | 3"               | 3"               |
| No. of Burners                            | 2                | 3                | 4                | 4                | 5                | 3                | 4                | 5                |
| Disposable Filter (in <sup>2</sup> )      | 422              | 657              | 844              | 844              | 1,079            | 749              | 961              | 864              |
| <b>ELECTRICAL DATA</b>                    |                  |                  |                  |                  |                  |                  |                  |                  |
| Min. Circuit Ampacity (amps) <sup>4</sup> | 11.3             | 14.1             | 14.4             | 14.4             | 14.4             | 11.2             | 15.1             | 14.4             |
| Max. Overcurrent Protection <sup>5</sup>  | 15               | 15               | 15               | 15               | 15               | 15               | 15               | 15               |
| <b>SHIP WEIGHT (LBS)</b>                  |                  |                  |                  |                  |                  |                  |                  |                  |
|   | 123              | 142              | 150              | 155              | 165              | 139              | 158              | 160              |

<sup>1</sup> Natural Gas BTU/h

<sup>2</sup> DOE AFUE based upon Isolated Combustion System (ICS)

<sup>3</sup> Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

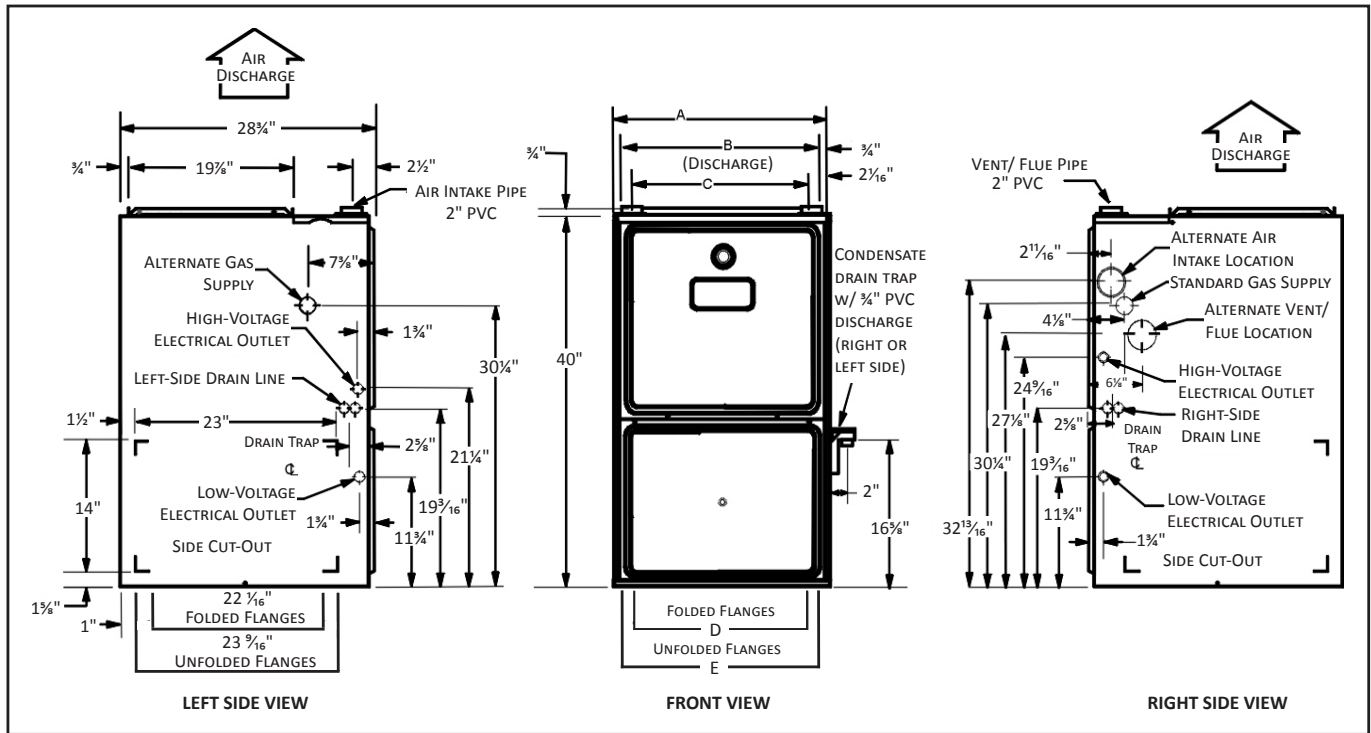
<sup>4</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>5</sup> Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

**NOTES**

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

# GMVC95 DIMENSIONS



| MODEL         | A       | B       | C       | D       | E       |
|---------------|---------|---------|---------|---------|---------|
| GMVC950453BXA | 17 1/2" | 16"     | 13 3/8" | 12 1/8" | 13 5/8" |
| GMVC950704CXA | 21"     | 19 1/2" | 16 1/8" | 16      | 17 1/2" |
| GMVC950905CXA | 21"     | 19 1/2" | 16 1/8" | 16      | 17 1/2" |
| GMVC950905DXA | 24 1/2" | 23"     | 20 3/8" | 19 3/8" | 20 3/8" |
| GMVC951155DXA | 24 1/2" | 23"     | 20 3/8" | 19 3/8" | 20 3/8" |

**NOTES:**

- Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.
- Line voltage wiring can enter through the right or left side of the furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Conversion kits for high-altitude natural gas operation are available. Contact your Amana distributor or dealer for details.
- Installer must supply following gas line fittings, according to which entrance is used:  
 Left—Two 90° elbows, one close nipple, straight pipe  
 Right—Straight pipe to reach gas valve
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.

## MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

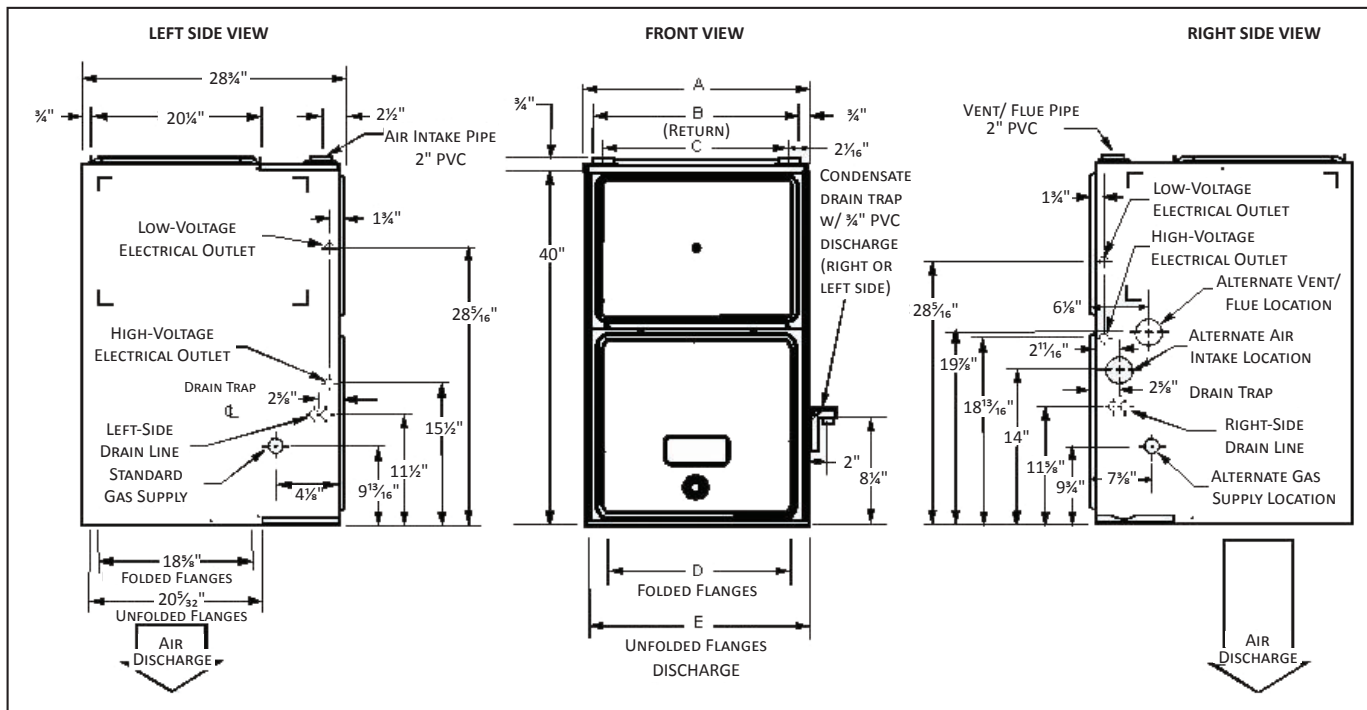
| POSITION   | SIDES | REAR | FRONT | BOTTOM | FLUE | TOP |
|------------|-------|------|-------|--------|------|-----|
| Upflow     | 0"    | 0"   | 3"    | C      | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 3"    | C      | 0"   | 6"  |

C = If placed on combustible floor, the floor MUST be wood ONLY.

**NOTES:**

- For servicing or cleaning, a 24" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

# GCVC95 DIMENSIONS



| MODEL         | A    | B    | C    | D    | E    |
|---------------|------|------|------|------|------|
| GCVC950714CXA | 21"  | 19½" | 16⅞" | 18"  | 19½" |
| GCVC950915DXA | 24½" | 23"  | 20⅞" | 21½" | 23"  |
| GCVC91155DXA  | 24½" | 23"  | 20⅞" | 21½" | 23"  |

**NOTES**

- Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run, and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.
- Line voltage wiring can enter through the right or left side of the furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Conversion kits for high-altitude natural gas operation are available. Contact your Amana distributor or dealer for details.
- Installer must supply following gas line fittings, according to which entrance is used:  
 Left—Two 90° elbows, one close nipple, straight pipe  
 Right—Straight pipe to reach gas valve
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.

## MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

| POSITION   | SIDES | REAR | FRONT | BOTTOM | FLUE | TOP |
|------------|-------|------|-------|--------|------|-----|
| Downflow   | 0"    | 0"   | 3"    | NC     | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 3"    | C      | 0"   | 6"  |

C = If placed on combustible floor, the floor MUST be wood ONLY.

NC = For installation on non-combustible floors only. A combustible floor sub-base must be used for installations on combustible flooring.

**Notes:**

- For servicing or cleaning, a 24" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

# GMVC95 AIRFLOW DATA

**GMVC950453BXA**  
**COOLING SPEED**  
 (@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 540            | 351           |
|     | Minus 5%  | 570            | 371           |
|     | Normal    | 600            | 390           |
|     | Plus 5%   | 630            | 410           |
|     | Plus 10%  | 660            | 429           |
| B   | Minus 10% | 720            | 468           |
|     | Minus 5%  | 760            | 494           |
|     | Normal    | 800            | 520           |
|     | Plus 5%   | 840            | 546           |
|     | Plus 10%  | 880            | 572           |
| C   | Minus 10% | 900            | 585           |
|     | Minus 5%  | 950            | 618           |
|     | Normal    | 1,000          | 650           |
|     | Plus 5%   | 1,050          | 683           |
|     | Plus 10%  | 1,100          | 715           |
| D   | Minus 10% | 1,080          | 702           |
|     | Minus 5%  | 1,140          | 741           |
|     | Normal    | 1,200          | 780           |
|     | Plus 5%   | 1,260          | 819           |
|     | Plus 10%  | 1,320          | 858           |

**GMVC950453BXA**  
**HEATING SPEED**  
 (@ .1" - .5" w.c. ESP; RISE RANGE: 30 - 60°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE (°F) |
|-----|-----------|----------------|---------------|-----------|
| A   | Minus 10% | 713            | 495           | 57        |
|     | Minus 5%  | 752            | 523           | 49        |
|     | Normal    | 792            | 550           | 41        |
|     | Plus 5%   | 832            | 578           | 43        |
|     | Plus 10%  | 871            | 605           | 46        |
| B   | Minus 10% | 778            | 540           | 52        |
|     | Minus 5%  | 821            | 570           | 49        |
|     | Normal    | 864            | 600           | 47        |
|     | Plus 5%   | 907            | 630           | 45        |
|     | Plus 10%  | 950            | 660           | 43        |
| C   | Minus 10% | 842            | 585           | 48        |
|     | Minus 5%  | 889            | 618           | 45        |
|     | Normal    | 936            | 650           | 43        |
|     | Plus 5%   | 983            | 683           | 41        |
|     | Plus 10%  | 1,030          | 715           | 39        |
| D   | Minus 10% | 907            | 630           | 45        |
|     | Minus 5%  | 958            | 665           | 42        |
|     | Normal    | 1,008          | 700           | 40        |
|     | Plus 5%   | 1,058          | 735           | 38        |
|     | Plus 10%  | 1,109          | 770           | 36        |

**GMVC950704CXA**  
**COOLING SPEED**  
 (@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 540            | 351           |
|     | Minus 5%  | 570            | 371           |
|     | Normal    | 600            | 390           |
|     | Plus 5%   | 630            | 410           |
|     | Plus 10%  | 660            | 429           |
| B   | Minus 10% | 720            | 468           |
|     | Minus 5%  | 760            | 494           |
|     | Normal    | 800            | 520           |
|     | Plus 5%   | 840            | 546           |
|     | Plus 10%  | 880            | 572           |
| C   | Minus 10% | 990            | 644           |
|     | Minus 5%  | 1,045          | 679           |
|     | Normal    | 1,100          | 715           |
|     | Plus 5%   | 1,155          | 751           |
|     | Plus 10%  | 1,210          | 787           |
| D   | Minus 10% | 1,286          | 836           |
|     | Minus 5%  | 1,358          | 883           |
|     | Normal    | 1,429          | 929           |
|     | Plus 5%   | 1,500          | 975           |
|     | Plus 10%  | 1,572          | 1,022         |

**GMVC950704CXA**  
**HEATING SPEED**  
 (@ .1" - .5" w.c. ESP; RISE RANGE: 30 - 60°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE (°F) |
|-----|-----------|----------------|---------------|-----------|
| A   | Minus 10% | 1,089          | 756           | 56        |
|     | Minus 5%  | 1,150          | 798           | 53        |
|     | Normal    | 1,210          | 840           | 50        |
|     | Plus 5%   | 1,271          | 882           | 48        |
|     | Plus 10%  | 1,331          | 924           | 46        |
| B   | Minus 10% | 1,193          | 828           | 51        |
|     | Minus 5%  | 1,259          | 874           | 48        |
|     | Normal    | 1,325          | 920           | 46        |
|     | Plus 5%   | 1,391          | 966           | 44        |
|     | Plus 10%  | 1,458          | 1,012         | 42        |
| C   | Minus 10% | 1,296          | 900           | 47        |
|     | Minus 5%  | 1,368          | 950           | 44        |
|     | Normal    | 1,440          | 1,000         | 42        |
|     | Plus 5%   | 1,512          | 1,050         | 40        |
|     | Plus 10%  | 1,584          | 1,100         | 38        |
| D   | Minus 10% | 1,400          | 972           | 43        |
|     | Minus 5%  | 1,477          | 1,026         | 41        |
|     | Normal    | 1,555          | 1,080         | 39        |
|     | Plus 5%   | 1,633          | 1,134         | 37        |
|     | Plus 10%  | 1,711          | 1,188         | 35        |

**NOTES**

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.

# GMVC95 AIRFLOW DATA (CONT.)

**GMVC950905CXA**  
COOLING SPEED  
(@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 729            | 495           |
|     | Minus 5%  | 770            | 523           |
|     | Normal    | 810            | 550           |
|     | Plus 5%   | 851            | 578           |
|     | Plus 10%  | 891            | 605           |
| B   | Minus 10% | 990            | 693           |
|     | Minus 5%  | 1,045          | 732           |
|     | Normal    | 1,100          | 770           |
|     | Plus 5%   | 1,155          | 809           |
|     | Plus 10%  | 1,210          | 847           |
| C   | Minus 10% | 1,323          | 900           |
|     | Minus 5%  | 1,397          | 950           |
|     | Normal    | 1,470          | 1,000         |
|     | Plus 5%   | 1,544          | 1,050         |
|     | Plus 10%  | 1,617          | 1,100         |
| D   | Minus 10% | 1,629          | 1,125         |
|     | Minus 5%  | 1,720          | 1,188         |
|     | Normal    | 1,810          | 1,250         |
|     | Plus 5%   | 1,901          | 1,313         |
|     | Plus 10%  | 1,991          | 1,375         |

**GMVC950905CXA**  
HEATING SPEED  
(@ .1" - .5" w.c. ESP; RISE RANGE: 30 - 60°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE (°F) |
|-----|-----------|----------------|---------------|-----------|
| A   | Minus 10% | 1,341          | 945           | 60        |
|     | Minus 5%  | 1,416          | 998           | 57        |
|     | Normal    | 1,490          | 1,050         | 54        |
|     | Plus 5%   | 1,565          | 1,103         | 51        |
|     | Plus 10%  | 1,639          | 1,155         | 49        |
| B   | Minus 10% | 1,413          | 1,008         | 57        |
|     | Minus 5%  | 1,492          | 1,064         | 54        |
|     | Normal    | 1,570          | 1,120         | 51        |
|     | Plus 5%   | 1,649          | 1,176         | 49        |
|     | Plus 10%  | 1,727          | 1,232         | 47        |
| C   | Minus 10% | 1,521          | 1,080         | 53        |
|     | Minus 5%  | 1,606          | 1,140         | 50        |
|     | Normal    | 1,690          | 1,200         | 48        |
|     | Plus 5%   | 1,775          | 1,260         | 45        |
|     | Plus 10%  | 1,859          | 1,320         | 43        |
| D   | Minus 10% | 1,602          | 1,125         | 50        |
|     | Minus 5%  | 1,691          | 1,188         | 47        |
|     | Normal    | 1,780          | 1,250         | 45        |
|     | Plus 5%   | 1,869          | 1,313         | 43        |
|     | Plus 10%  | 1,958          | 1,375         | 41        |

**GMVC950905DXA**  
COOLING SPEED  
(@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 720            | 468           |
|     | Minus 5%  | 760            | 494           |
|     | Normal    | 800            | 520           |
|     | Plus 5%   | 840            | 546           |
|     | Plus 10%  | 880            | 572           |
| B   | Minus 10% | 900            | 644           |
|     | Minus 5%  | 950            | 679           |
|     | Normal    | 1,000          | 715           |
|     | Plus 5%   | 1,050          | 751           |
|     | Plus 10%  | 1,100          | 787           |
| C   | Minus 10% | 1,260          | 819           |
|     | Minus 5%  | 1,330          | 865           |
|     | Normal    | 1,400          | 910           |
|     | Plus 5%   | 1,470          | 956           |
|     | Plus 10%  | 1,540          | 1,001         |
| D   | Minus 10% | 1,620          | 1,053         |
|     | Minus 5%  | 1,710          | 1,112         |
|     | Normal    | 1,800          | 1,170         |
|     | Plus 5%   | 1,890          | 1,229         |
|     | Plus 10%  | 1,980          | 1,287         |

**GMVC950905DXA**  
HEATING SPEED  
(@ .1" - .5" w.c. ESP; RISE RANGE: 30 - 60°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE (°F) |
|-----|-----------|----------------|---------------|-----------|
| A   | Minus 10% | 1,458          | 1,013         | 55        |
|     | Minus 5%  | 1,539          | 1,069         | 52        |
|     | Normal    | 1,620          | 1,125         | 50        |
|     | Plus 5%   | 1,701          | 1,181         | 47        |
|     | Plus 10%  | 1,782          | 1,238         | 45        |
| B   | Minus 10% | 1,549          | 1,076         | 52        |
|     | Minus 5%  | 1,635          | 1,135         | 49        |
|     | Normal    | 1,721          | 1,195         | 47        |
|     | Plus 5%   | 1,807          | 1,255         | 45        |
|     | Plus 10%  | 1,893          | 1,315         | 43        |
| C   | Minus 10% | 1,640          | 1,139         | 49        |
|     | Minus 5%  | 1,731          | 1,202         | 46        |
|     | Normal    | 1,822          | 1,265         | 44        |
|     | Plus 5%   | 1,913          | 1,328         | 42        |
|     | Plus 10%  | 2,004          | 1,392         | 40        |
| D   | Minus 10% | 1,730          | 1,202         | 47        |
|     | Minus 5%  | 1,826          | 1,268         | 44        |
|     | Normal    | 1,922          | 1,335         | 42        |
|     | Plus 5%   | 2,018          | 1,402         | 40        |
|     | Plus 10%  | 2,114          | 1,469         | 38        |

**NOTES**

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.

# GMVC95 AIRFLOW DATA (CONT.)

**GMVC951155DXA  
COOLING SPEED  
( @ .1" - .8" w.c. ESP)**

| TAP | ADJUST    | HIGH-STAGE<br>CFM | LOW-STAGE<br>CFM |
|-----|-----------|-------------------|------------------|
| A   | Minus 10% | 720               | 468              |
|     | Minus 5%  | 760               | 494              |
|     | Normal    | 800               | 520              |
|     | Plus 5%   | 840               | 546              |
|     | Plus 10%  | 880               | 572              |
| B   | Minus 10% | 990               | 644              |
|     | Minus 5%  | 1,045             | 679              |
|     | Normal    | 1,100             | 715              |
|     | Plus 5%   | 1,155             | 751              |
|     | Plus 10%  | 1,210             | 787              |
| C   | Minus 10% | 1,260             | 819              |
|     | Minus 5%  | 1,330             | 865              |
|     | Normal    | 1,400             | 910              |
|     | Plus 5%   | 1,470             | 956              |
|     | Plus 10%  | 1,540             | 1,001            |
| D   | Minus 10% | 1,620             | 1,053            |
|     | Minus 5%  | 1,710             | 1,112            |
|     | Normal    | 1,800             | 1,170            |
|     | Plus 5%   | 1,890             | 1,229            |
|     | Plus 10%  | 1,980             | 1,287            |

**GMVC951155DXA  
HEATING SPEED  
(@ .1" - .5" w.c. ESP; RISE RANGE: 35 - 65°F)**

| TAP | ADJUST    | HIGH-STAGE<br>CFM | LOW-STAGE<br>CFM | RISE<br>(°F) |
|-----|-----------|-------------------|------------------|--------------|
| A   | Minus 10% | 1,594             | 1,107            | 63           |
|     | Minus 5%  | 1,682             | 1,169            | 60           |
|     | Normal    | 1,771             | 1,230            | 57           |
|     | Plus 5%   | 1,860             | 1,292            | 54           |
|     | Plus 10%  | 1,948             | 1,353            | 52           |
| B   | Minus 10% | 1,640             | 1,139            | 62           |
|     | Minus 5%  | 1,731             | 1,202            | 59           |
|     | Normal    | 1,822             | 1,265            | 56           |
|     | Plus 5%   | 1,913             | 1,328            | 53           |
|     | Plus 10%  | 2,004             | 1,392            | 50           |
| C   | Minus 10% | 1,685             | 1,170            | 60           |
|     | Minus 5%  | 1,778             | 1,235            | 57           |
|     | Normal    | 1,872             | 1,300            | 54           |
|     | Plus 5%   | 1,966             | 1,365            | 51           |
|     | Plus 10%  | 2,059             | 1,430            | 49           |
| D   | Minus 10% | 1,730             | 1,202            | 58           |
|     | Minus 5%  | 1,826             | 1,268            | 55           |
|     | Normal    | 1,922             | 1,335            | 53           |
|     | Plus 5%   | 2,018             | 1,402            | 50           |
|     | Plus 10%  | 2,114             | 1,469            | 48           |

**NOTES**

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.



# GCVC95 AIRFLOW DATA

**GCVC950714CXA**  
**COOLING SPEEDS**  
 (@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 594            | 324           |
|     | Minus 5%  | 627            | 342           |
|     | Normal    | 660            | 360           |
|     | Plus 5%   | 693            | 378           |
|     | Plus 10%  | 726            | 396           |
| B   | Minus 10% | 747            | 468           |
|     | Minus 5%  | 789            | 494           |
|     | Normal    | 830            | 520           |
|     | Plus 5%   | 872            | 546           |
|     | Plus 10%  | 913            | 572           |
| C   | Minus 10% | 1,017          | 702           |
|     | Minus 5%  | 1,074          | 741           |
|     | Normal    | 1,130          | 780           |
|     | Plus 5%   | 1,187          | 819           |
|     | Plus 10%  | 1,243          | 858           |
| D   | Minus 10% | 1,314          | 864           |
|     | Minus 5%  | 1,387          | 912           |
|     | Normal    | 1,460          | 960           |
|     | Plus 5%   | 1,533          | 1,008         |
|     | Plus 10%  | 1,606          | 1,056         |

**GCVC950714CXA**  
**HEATING SPEED**  
 (@ .1" - .5" w.c. ESP; RISE RANGE: 25 - 55°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE (°F) |
|-----|-----------|----------------|---------------|-----------|
| A   | Minus 10% | 1,107          | 783           | 77        |
|     | Minus 5%  | 1,169          | 827           | 73        |
|     | Normal    | 1,230          | 870           | 69        |
|     | Plus 5%   | 1,292          | 914           | 66        |
|     | Plus 10%  | 1,353          | 957           | 63        |
| B   | Minus 10% | 1,215          | 855           | 71        |
|     | Minus 5%  | 1,283          | 903           | 68        |
|     | Normal    | 1,350          | 950           | 64        |
|     | Plus 5%   | 1,418          | 998           | 61        |
|     | Plus 10%  | 1,485          | 1,045         | 58        |
| C   | Minus 10% | 1,323          | 936           | 65        |
|     | Minus 5%  | 1,397          | 988           | 61        |
|     | Normal    | 1,470          | 1,040         | 58        |
|     | Plus 5%   | 1,544          | 1,092         | 55        |
|     | Plus 10%  | 1,617          | 1,144         | 53        |
| D   | Minus 10% | 1,440          | 1,017         | 59        |
|     | Minus 5%  | 1,520          | 1,074         | 56        |
|     | Normal    | 1,600          | 1,130         | 53        |
|     | Plus 5%   | 1,680          | 1,187         | 51        |
|     | Plus 10%  | 1,760          | 1,243         | 49        |

**GCVC950915DXA**  
**COOLING SPEEDS**  
 (@ .1" - .8" w.c. ESP)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 729            | 504           |
|     | Minus 5%  | 770            | 532           |
|     | Normal    | 810            | 560           |
|     | Plus 5%   | 851            | 588           |
|     | Plus 10%  | 891            | 616           |
| B   | Minus 10% | 999            | 666           |
|     | Minus 5%  | 1,055          | 703           |
|     | Normal    | 1,110          | 740           |
|     | Plus 5%   | 1,166          | 777           |
|     | Plus 10%  | 1,221          | 814           |
| C   | Minus 10% | 1,287          | 828           |
|     | Minus 5%  | 1,359          | 874           |
|     | Normal    | 1,430          | 920           |
|     | Plus 5%   | 1,502          | 966           |
|     | Plus 10%  | 1,573          | 1,012         |
| D   | Minus 10% | 1,674          | 1,071         |
|     | Minus 5%  | 1,767          | 1,131         |
|     | Normal    | 1,860          | 1,190         |
|     | Plus 5%   | 1,953          | 1,250         |
|     | Plus 10%  | 2,046          | 1,309         |

**GCVC950915DXA**  
**HEATING SPEED**  
 (@ .1" - .5" w.c. ESP; RISE RANGE: 25 - 55°F)

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE |
|-----|-----------|----------------|---------------|------|
| A   | Minus 10% | 1,458          | 1,008         | 80   |
|     | Minus 5%  | 1,539          | 1,064         | 76   |
|     | Normal    | 1,620          | 1,120         | 72   |
|     | Plus 5%   | 1,701          | 1,176         | 68   |
|     | Plus 10%  | 1,782          | 1,232         | 65   |
| B   | Minus 10% | 1,575          | 1,098         | 73   |
|     | Minus 5%  | 1,663          | 1,159         | 69   |
|     | Normal    | 1,750          | 1,220         | 66   |
|     | Plus 5%   | 1,838          | 1,281         | 63   |
|     | Plus 10%  | 1,925          | 1,342         | 60   |
| C   | Minus 10% | 1,674          | 1,152         | 70   |
|     | Minus 5%  | 1,767          | 1,216         | 66   |
|     | Normal    | 1,860          | 1,280         | 63   |
|     | Plus 5%   | 1,953          | 1,344         | 60   |
|     | Plus 10%  | 2,046          | 1,408         | 57   |
| D   | Minus 10% | 1,773          | 1,206         | 67   |
|     | Minus 5%  | 1,872          | 1,273         | 63   |
|     | Normal    | 1,970          | 1,340         | 60   |
|     | Plus 5%   | 2,069          | 1,407         | 57   |
|     | Plus 10%  | 2,167          | 1,474         | 55   |

See Notes on previous page.

# GCVC95 AIRFLOW DATA (CONT.)

**GCVC91155DXA  
COOLING SPEEDS  
( @ .1" - .8" w.c. ESP)**

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM |
|-----|-----------|----------------|---------------|
| A   | Minus 10% | 705            | 457           |
|     | Minus 5%  | 744            | 483           |
|     | Normal    | 783            | 508           |
|     | Plus 5%   | 822            | 533           |
|     | Plus 10%  | 861            | 559           |
| B   | Minus 10% | 982            | 621           |
|     | Minus 5%  | 1,036          | 656           |
|     | Normal    | 1,091          | 690           |
|     | Plus 5%   | 1,146          | 725           |
|     | Plus 10%  | 1,200          | 759           |
| C   | Minus 10% | 1,265          | 815           |
|     | Minus 5%  | 1,336          | 861           |
|     | Normal    | 1,406          | 906           |
|     | Plus 5%   | 1,476          | 951           |
|     | Plus 10%  | 1,547          | 997           |
| D   | Minus 10% | 1,628          | 1,049         |
|     | Minus 5%  | 1,719          | 1,107         |
|     | Normal    | 1,809          | 1,165         |
|     | Plus 5%   | 1,899          | 1,223         |
|     | Plus 10%  | 1,990          | 1,282         |

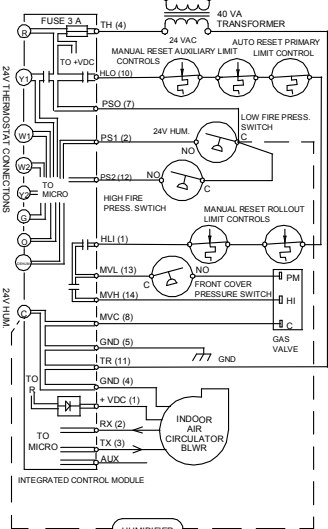
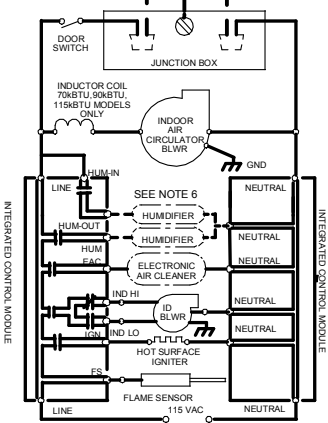
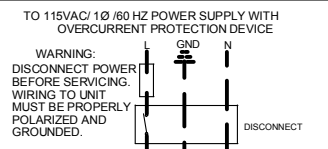
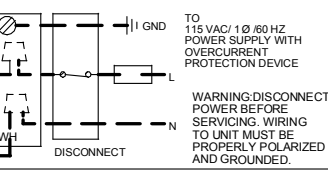
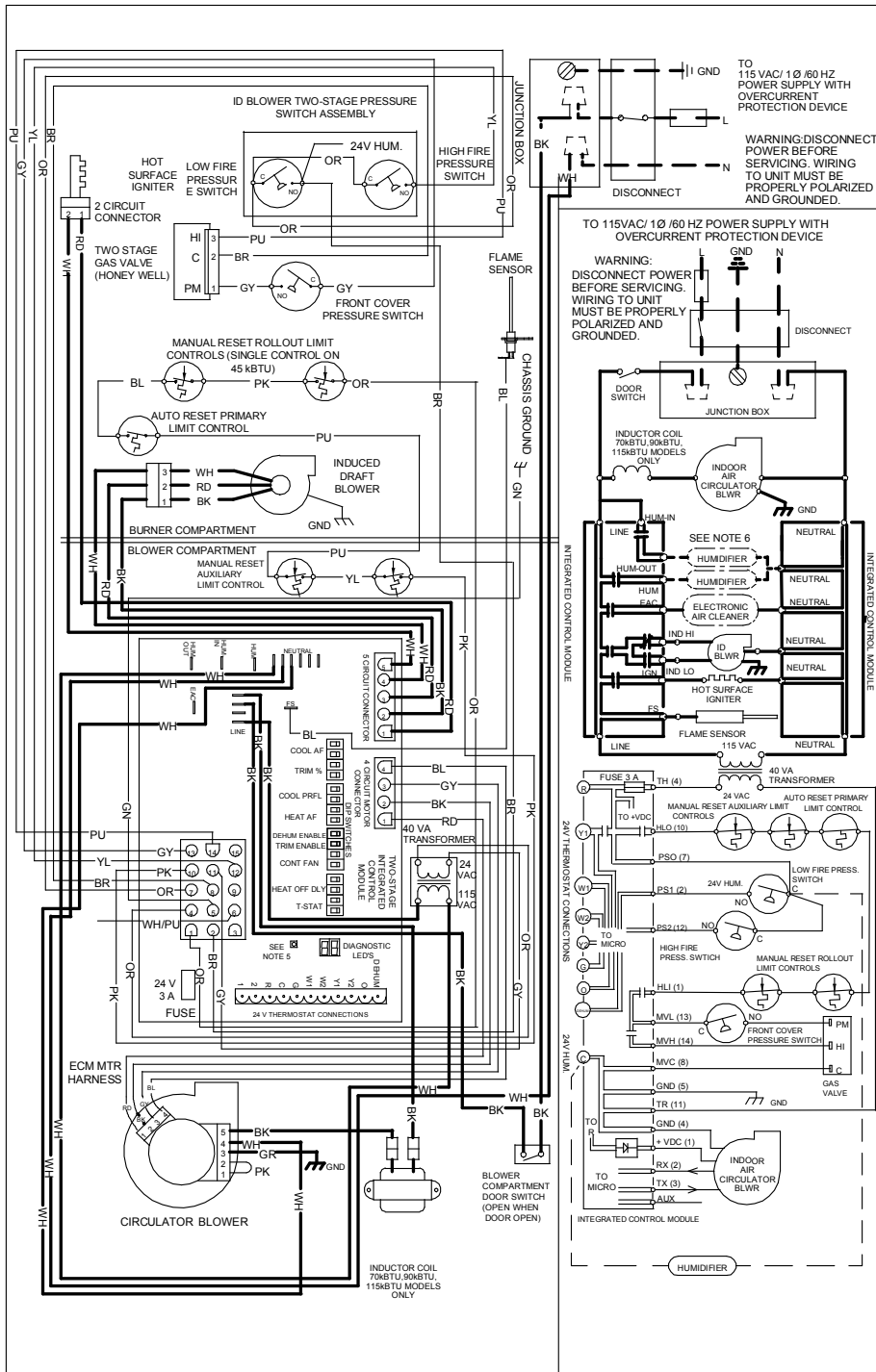
**GCVC91155DXA  
HEATING SPEED  
( @ .1" - .5" w.c. ESP; RISE RANGE: 40 - 70°F)**

| TAP | ADJUST    | HIGH-STAGE CFM | LOW-STAGE CFM | RISE |
|-----|-----------|----------------|---------------|------|
| A   | Minus 10% | 1,583          | 1,093         | 63   |
|     | Minus 5%  | 1,671          | 1,153         | 59   |
|     | Normal    | 1,759          | 1,214         | 56   |
|     | Plus 5%   | 1,847          | 1,275         | 53   |
|     | Plus 10%  | 1,935          | 1,335         | 51   |
| B   | Minus 10% | 1,612          | 1,106         | 61   |
|     | Minus 5%  | 1,701          | 1,168         | 58   |
|     | Normal    | 1,791          | 1,229         | 55   |
|     | Plus 5%   | 1,881          | 1,290         | 52   |
|     | Plus 10%  | 1,970          | 1,352         | 50   |
| C   | Minus 10% | 1,654          | 1,166         | 60   |
|     | Minus 5%  | 1,746          | 1,231         | 57   |
|     | Normal    | 1,838          | 1,296         | 54   |
|     | Plus 5%   | 1,930          | 1,361         | 51   |
|     | Plus 10%  | 2,022          | 1,426         | 49   |
| D   | Minus 10% | 1,690          | 1,172         | 59   |
|     | Minus 5%  | 1,784          | 1,237         | 56   |
|     | Normal    | 1,878          | 1,302         | 53   |
|     | Plus 5%   | 1,972          | 1,367         | 50   |
|     | Plus 10%  | 2,066          | 1,432         | 48   |

**NOTES**

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.

# WIRING DIAGRAM



**NOTES:**

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°F. USE COPPER CONDUCTORS ONLY.
4. UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.
5. TO RECALL THE LAST 6 FAULTS, MOST RECENT TO LEAST RECENT, DEPRESS SWITCH FOR MORE THAN 2 SECONDS WHILE IN STANDBY (NO THERMOSTAT INPUTS).
6. HUMIDIFIER INSTALLATION OPTIONS: USE HUM TERMINAL TO RUN HUMIDIFIER DURING HEAT CALL (COMMUNICATING OR LEGACY MODES); USE HUM-IN AND HUM-OUT TERMINALS TO RUN HUMIDIFIER DURING HEAT CALL (COMMUNICATING MODE OR LEGACY MODE) OR INDEPENDENTLY FROM HEAT CALL (COMMUNICATING MODE ONLY - SETUP IS DONE WITHIN COMMUNICATING THERMOSTAT).

**COLOR CODES:**  
 PK PINK  
 BR BROWN  
 WH WHITE  
 BL BLUE  
 GY GRAY  
 RD RED  
 YL YELLOW  
 OR ORANGE  
 PU PURPLE  
 GN GREEN  
 BK BLACK

LOW VOLTAGE (24V) ———  
 LOW VOLTAGE FIELD ———  
 HI VOLTAGE (115V) ———  
 HI VOLTAGE FIELD ———  
 JUNCTION ———  
 TERMINAL ———  
 INTERNAL TO INTEGRATED CONTROL ———  
 PLUG CONNECTION ———

EQUIPMENT GND ———  
 FIELD GND ———  
 FIELD SPLICE ———  
 SWITCH (TEMP.) ———  
 IGNITER ———  
 SWITCH (PRESS.) ———  
 OVERCURRENT PROT. DEVICE ———

**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.

**WARNING**

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

0140F01201-B

**ACCESSORIES**

| MODEL      | DESCRIPTION                                    | GMVC95<br>0453BXA | GMVC95<br>0704CXA | GMVC95<br>0905*XA | GMVC95<br>1155DXA | GVCV95<br>0704CXA | GVCV95<br>0905DXA | GVCV9<br>1155DXA |
|------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| LPM-06     | LP Conversion Kit ** (Springs & Orifice)       | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                |
| GSAS       | Electronic Air Cleaners (-10, -11, -12 or -18) | √                 | √                 | √                 | √                 | √                 | √                 | √                |
| GMU        | Media Air Cleaners (1620, 2020, 1625 or 2025)  | √                 | √                 | √                 | √                 | √                 | √                 | √                |
| DEHUM1     | Dehumidistat                                   | √                 | √                 | √                 | √                 | √                 | √                 | √                |
| HAPS28     | High-Altitude Pressure Switch Kit              | 2                 | 2                 | ---               | ---               | ---               | ---               | ---              |
| HAPS29     | High-Altitude Pressure Switch Kit              | ---               | ---               | ---               | 2                 | ---               | ---               | ---              |
| HAPS 31    | High-Altitude Pressure Switch Kit              | ---               | ---               | ---               | ---               | ---               | ---               | 2                |
| HALP11     | High-Altitude Propane Gas Kit                  | 2                 | 2                 | ---               | 2                 | ---               | ---               | ---              |
| HALP 13    | High-Altitude Propane Gas Kit                  | ---               | ---               | ---               | ---               | ---               | ---               | 2                |
| HANG 13    | High-Altitude Natural Gas Kit                  | 3                 | 3                 | ---               | 3                 | ---               | ---               | ---              |
| HANG 14    | High-Altitude Natural Gas Kit                  | 4                 | 4                 | ---               | 4                 | ---               | ---               | ---              |
| HANG 16    | High-Altitude Natural Gas Kit                  | ---               | ---               | ---               | ---               | ---               | ---               | 2                |
| EFR01      | External Filter Rack                           | √                 | √                 | √                 | √                 | √                 | √                 | √                |
| DCVK-20    | Horizontal/Vertical Concentric Vent Kit (2")   | √                 | √                 | √                 | ---               | √                 | ---               | ---              |
| DCVK-30    | Horizontal/Vertical Concentric Vent Kit (3")   | √                 | √                 | √                 | √                 | √                 | √                 | √                |
| CFB21      | Downflow Floor Base                            | ---               | ---               | ---               | ---               | √                 | ---               | ---              |
| CFB24      | Downflow Floor Base                            | ---               | ---               | ---               | ---               | ---               | √                 | √                |
| 017K00000S | Flush-mount vent kit                           | √                 | √                 | √                 | √                 | √                 | √                 | √                |

\* White-Rodgers gas valve

\*\* Honeywell or White-Rodgers gas valve

1 All Models up to 7,000'

2 7,001' to 11,000'

3 7,001' to 9,000'

4 9,001' to 11,000'

**Note:** All installations above 7,000' require a pressure switch change. For installation in Canada, gas furnaces are certified only to 4,500'.

**THERMOSTATS**



CTK03 ComfortNet-compatible Control  
(See ComfortNet website ([www.comfortnet1.com](http://www.comfortnet1.com)) for details.)



CTK02 ComfortNet-compatible Control  
(See ComfortNet website ([www.comfortnet1.com](http://www.comfortnet1.com)) for details.)



CTK01 ComfortNet-compatible Control  
(See ComfortNet website ([www.comfortnet1.com](http://www.comfortnet1.com)) for details.)