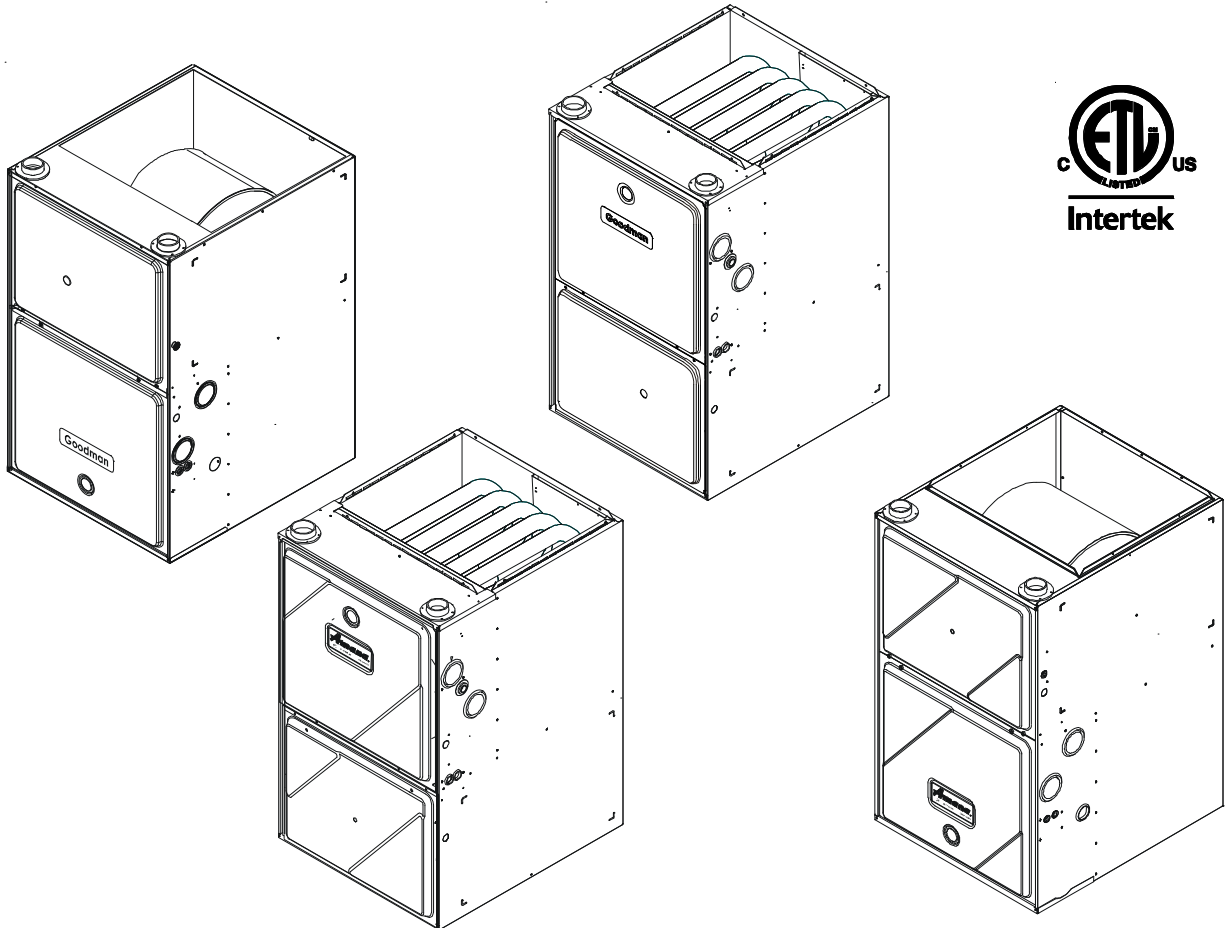


# TECHNICAL MANUAL

## \*MSS92, \*CSS92 34.5" SINGLE STAGE MULTI-SPEED GAS FURNACE UP TO 92% AFUE

- Refer to Service Manual RS6612012 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.



This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

RT6612029  
August 2014

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# PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

|  | * | M | S | S | 9 | 2 | 0 | 6 | 0 | 3  | B  | N  | A  | A  |  |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|--|
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |  |
| <b>Brand</b><br>A - Amana® Brand G - Goodman® Brand  |   |   |   |   |   |   |   |   |   |    |    |    |    |    | <b>Minor Revision</b><br>A - Initial Release<br>B - 1st Revision     |
| <b>Configuration</b><br>M - Upflow/Horizontal<br>C - Downflow/Horizontal<br>K - Dedicated Upflow<br>D - Dedicated Downflow |   |   |   |   |   |   |   |   |   |    |    |    |    |    | <b>Major Revision</b><br>A - Initial Release<br>B - 1st Revision     |
| <b>Airflow</b><br>C - Variable Speed/ComfortNet<br>E - High Efficiency<br>S - Single Speed                                 |   |   |   |   |   |   |   |   |   |    |    |    |    |    | <b>Nox</b><br>N - Natural Gas<br>X - Low Nox                         |
| <b>Gas Valve Stages</b><br>M - Modulating<br>V - 2 Stage<br>H - Convertible 2 Stage<br>S - Single Stage                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    | <b>Cabinet Width</b><br>A - 14"<br>B - 17.5"<br>C - 21"<br>D - 24.5" |
| <b>AFUE</b><br>92 - 92% AFUE   |   |   |   |   |   |   |   |   |   |    |    |    |    |    | <b>Maximum CFM</b><br>3 - 1200 CFM<br>4 - 1600 CFM<br>5 - 2000 CFM   |
| <b>MBTU/h</b><br>040 - 40,000<br>060 - 60,000<br>080 - 80,000<br>100 - 100,000<br>120 - 120,000                            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |  |

**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.

**WARNING**

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.





**WARNING**


Installation and repair of this unit should be performed **ONLY** by individuals meeting the requirements of an "entry level technician", at a minimum, as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.


# PRODUCT IDENTIFICATION


The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

|                |                |
|----------------|----------------|
| ACSS920402BN** | GCSS920402BN** |
| ACSS920603BN** | GCSS920603BN** |
| ACSS920804CN** | GCSS920804CN** |
| ACSS921005CN** | GCSS921005CN** |
| AMSS920402BN** | GMSS920402BN** |
| AMSS920603BN** | GMSS920603BN** |
| AMSS920803BN** | GMSS920803BN** |
| AMSS920804CN** | GMSS920804CN** |
| AMSS920805CN** | GMSS920805CN** |
| AMSS921004CN** | GMSS921004CN** |
| AMSS921005CN** | GMSS921005CN** |
| AMSS921205DN** | GMSS921205DN** |

|  |
|--|
|  <b>DANGER</b>  |
|   |
| <b>CARBON MONOXIDE POISONING HAZARD</b><br><small>Special warning for installation of furnaces or air handling units in enclosed area such as garages, utility rooms or parking areas. Carbon monoxide producing devices (such as automobile, space heater, gas water heater, etc.) Should not be operated in enclosed areas such as unventilated garages or utility rooms because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area and a carbon monoxide producing device is operated therein, there must be adequate direct outside ventilation. Carbon monoxide emissions can be (re)circulated throughout the structure if the furnace or air handler is operating in any mode. CO can cause serious illness including permanent brain damage or death.</small>  |
|  <b>DANGER</b>  |
| <b>RISQUE D'EMPOISONNEMENT AU MONOXYDE DE CARBONE</b><br><small>Avertissement special au sujet de l'installation d'appareils de chauffage ou de traitement d'air dans des endroits clos, tels les garages, les locaux d'entretien et les stationnements. Evitez de mettre en marche les appareils produisant du monoxyde de carbone (tels que les automobile, les appareils de chauffage autonome, etc.) dans des endroits non ventilés tels que les d'empoisonnement au monoxyde de carbone. Si vous devez faire fonctionner ces appareils dans un endroit clos, assurez-vous qu'il y ait une ventilation directe provenant de l'exterie . Les émissions de monoxyde de carbone peuvent etre recircules dans les endroits clos, si l'appareil de chauffage ou de traitement d'air sont en marche. Le monoxyde de carbone peut causer des maladies graves telles que des dommages permanents au cerveau et meme la mort.</small> |
|  <b>PELIGRO</b>   |
| <b>RIESGO DE INTOXICACIÓN POR MONÓXIDO DE CARBONO</b><br><small>Advertencia especial para la instalación de calentadores ó maneja oras de aire en áreas cerradas como estacionamientos ó cuartos de servicio. Los equipos ó aparatos que producen monóxido de carbono (tal como automóvil, calentador de gas, calentador de agua por medio de gas, etc) no deben ser operados en áreas cerradas debido al riesgo de envenenamiento por monóxido de carbono (CO) que resulta de las emisiones de gases de combustión. Si el equipo ó aparato se opera en dichas áreas, debe existir una adecuada ventilación directa al exterior. Las emisiones de monóxido de carbono pueden circular a través del aparato cuando se opera en cualquier modo. El monóxido de carbono puede causar enfermedades severas como daño cerebral permanente ó muerte.</small>   |
| <small>0140M00020-D</small>  |

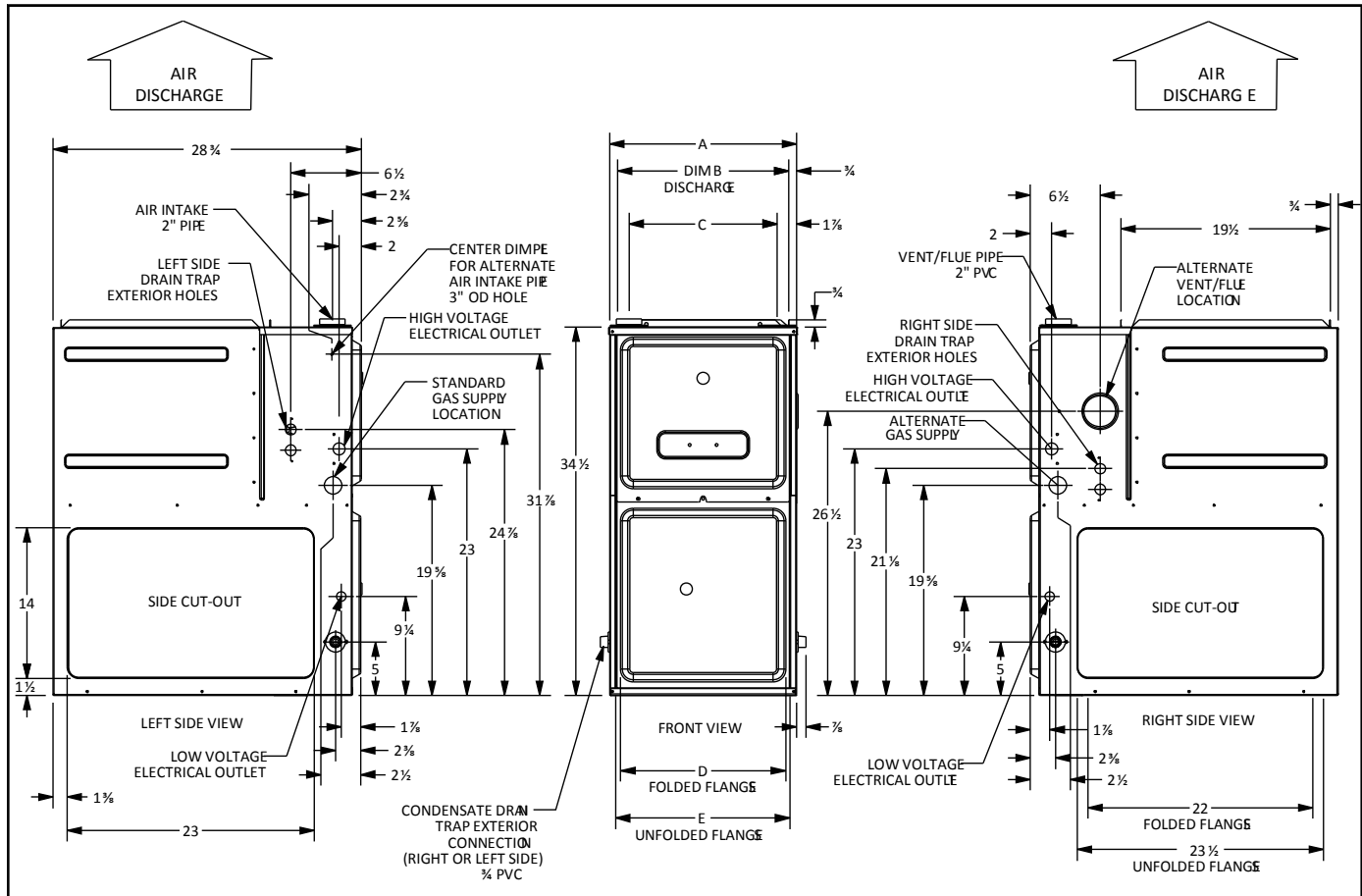
|  |   |
|--|---|
|  <b>WARNING</b> | <p>The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.</p> |
|--|---|

|  |  |
|--|--|
|  <b>WARNING</b> | <p>Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.</p> |
|--|--|

|  |  |
|--|--|
|  <b>WARNING</b> | <p>To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.</p> |
|--|--|

# PRODUCT DIMENSIONS

**\*MSS92**



| Model          | A       | B       | C       | D       | E       |
|----------------|---------|---------|---------|---------|---------|
| *MSS920402BN** | 17-1/2" | 16"     | 13-7/8" | 12-1/8" | 13-5/8" |
| *MSS920603BN** | 17-1/2" | 16"     | 13-7/8" | 12-1/8" | 13-5/8" |
| *MSS920803BN** | 17-1/2" | 16"     | 13-7/8" | 12-1/8" | 13-5/8" |
| *MSS920804CN** | 21"     | 19-1/2" | 17-3/8" | 16"     | 17-1/2" |
| *MSS920805CN** | 21"     | 19-1/2" | 17-3/8" | 16"     | 17-1/2" |
| *MSS921004CN** | 21"     | 19-1/2" | 17-3/8" | 16"     | 17-1/2" |
| *MSS921005CN** | 21"     | 19-1/2" | 17-3/8" | 16"     | 17-1/2" |
| *MSS921205DN** | 24-1/2" | 23"     | 20-3/8" | 10-3/8" | 20-7/8" |

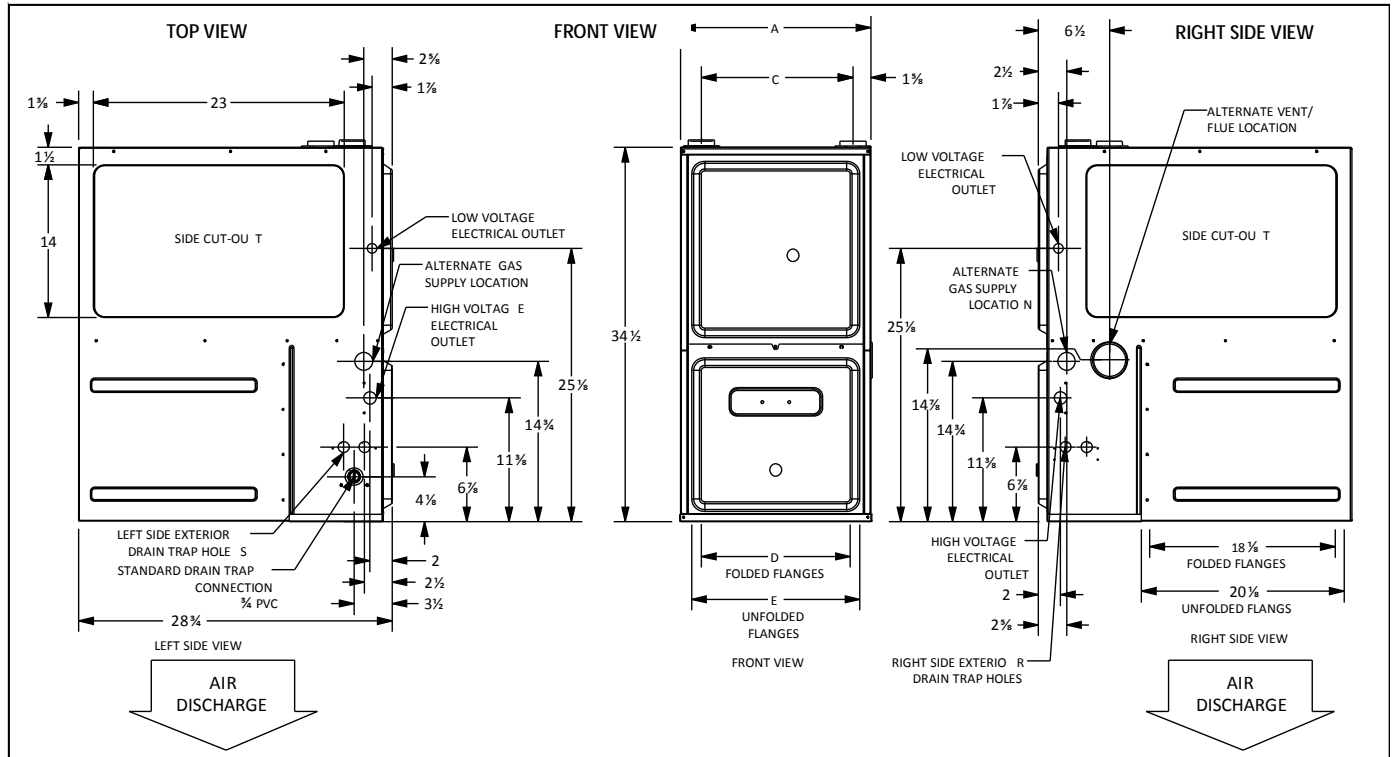
## MINIMUM CLEARANCES TO COMBUSTIBLE MATERIAL

| 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.

# PRODUCT DIMENSIONS

\*CSS92



| Model          | A       | B       | C       | D       | E       |
|----------------|---------|---------|---------|---------|---------|
| *CSS920402BN** | 17-1/2" | 14-5/8" | 14"     | 14-1/2" | 16"     |
| *CSS920603BN** | 17-1/2" | 14-5/8" | 14"     | 14-1/2" | 16"     |
| *CSS920804CN** | 21"     | 18-1/8" | 17-1/2" | 18"     | 19-1/2" |
| *CSS921005CN** | 21"     | 18-1/8" | 17-1/2" | 18"     | 19-1/2" |

## MINIMUM CLEARANCES TO COMBUSTIBLE MATERIAL

| 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.

# FURNACE SPECIFICATIONS

**\*MSS92**

|                                     | *MSS92<br>0402BNA | *MSS92<br>0603BNA | *MSS92<br>0803BNA | *MSS92<br>0804CNA | *MSS92<br>0805CNA | *MSS92<br>1004CNA | *MSS92<br>1005CNA | *MSS92<br>1205DNA |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Heating Data</b>                 |                   |                   |                   |                   |                   |                   |                   |                   |
| High Fire Input <sup>1</sup>        | 40,000            | 60,000            | 80,000            | 80,000            | 80,000            | 100,000           | 100,000           | 120,000           |
| High Fire Output <sup>1</sup>       | 36,840            | 55,260            | 73,680            | 73,680            | 73,680            | 92,100            | 92,100            | 110,520           |
| AFUE <sup>2</sup>                   | 92                | 92                | 92                | 92                | 92                | 92                | 92                | 92                |
| Temperature Rise Range (°F)         | 30 - 60           | 35 - 65           | 35 - 65           | 35 - 65           | 25 - 55           | 35 - 65           | 35 - 65           | 35 - 65           |
| Vent Diameter <sup>3</sup>          | 2" - 3"           | 2" - 3"           | 2" - 3"           | 2" - 3"           | 2" - 3"           | 2" - 3"           | 2" - 3"           | 3"                |
| No. of Burners                      | 2                 | 3                 | 4                 | 4                 | 4                 | 5                 | 5                 | 6                 |
| <b>Circulator Blower</b>            |                   |                   |                   |                   |                   |                   |                   |                   |
| Available AC @ 0.5" ESP             | 1.5 - 3           | 1.5 - 3           | 1.5 - 3           | 3 - 5             | 3 - 5             | 3 - 5             | 3 - 5             | 3 - 5             |
| Size (D x W)                        | 10" x 8"          | 10" x 8"          | 10" x 8"          | 10" x 10"         | 11" x 10"         | 10" x 10"         | 11" x 10"         | 11" x 11"         |
| Horsepower @ 1075 RPM               | 1/3               | 1/3               | 1/3               | 1/2               | 3/4               | 1/2               | 3/4               | 3/4               |
| Speed                               | 4                 | 4                 | 4                 | 4                 | 4                 | 4                 | 4                 | 4                 |
| <b>Filter Size (in<sup>2</sup>)</b> |                   |                   |                   |                   |                   |                   |                   |                   |
| Permanent                           | 363               | 491               | 654               | 654               | 818               | 818               | 818               | 981               |
| Disposable                          | 182               | 245               | 327               | 327               | 409               | 409               | 409               | 491               |
| <b>Electrical Data</b>              |                   |                   |                   |                   |                   |                   |                   |                   |
| Min. Circuit Ampacity               | 9.6               | 9.6               | 9.6               | 11.7              | 13.7              | 11.7              | 13.7              | 13.7              |
| Max. Overcurrent Device (amps)      | 15                | 15                | 15                | 15                | 15                | 15                | 15                | 15                |
| <b>Shipping Weight (lbs)</b>        |                   |                   |                   |                   |                   |                   |                   |                   |
|                                     | 109               | 112               | 115               | 137               | 138               | 139               | 140               | 152               |

<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.

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.

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 connection in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- 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.

# FURNACE SPECIFICATIONS

\*CSS92

|                                     | *CSS92<br>0402BNA | *CSS92<br>0603BNA | *CSS92<br>0804CNA | *CSS92<br>1005CNA |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Heating Data</b>                 | 40,000            | 60,000            | 80,000            | 100,000           |
| High Fire Input <sup>1</sup>        |                   |                   |                   |                   |
| High Fire Output <sup>1</sup>       | 36,840            | 55,260            | 73,680            | 92,100            |
| AFUE <sup>2</sup>                   | 92                | 92                | 92                | 92                |
| Temperature Rise Range (°F)         | 30 - 60           | 35 - 65           | 35 - 65           | 35 - 65           |
| Vent Diameter <sup>3</sup>          | 2" - 3"           | 2" - 3"           | 2" - 3"           | 2" - 3"           |
| No. of Burners                      | 2                 | 3                 | 4                 | 5                 |
| <b>Circulator Blower</b>            |                   |                   | 2.5 - 4           | 2.5 - 4           |
| Available AC @ 0.5" ESP             | 1.5 - 3           | 1.5 - 3           |                   |                   |
| Size (D x W)                        | 10" x 8"          | 10" x 8"          | 10" x 10"         | 11" x 10"         |
| Horsepower @ 1075 RPM               | 1/3               | 1/3               | 1/2               | ¾                 |
| Speed                               | 4                 | 4                 | 4                 | 4                 |
| <b>Filter Size (in<sup>2</sup>)</b> | 363               | 491               | 654               | 818               |
| Permanent                           |                   |                   |                   |                   |
| Disposable                          | 182               | 245               | 327               | 409               |
| <b>Electrical Data</b>              | 9.6               | 9.6               | 11.7              | 13.7              |
| Min. Circuit Ampacity               |                   |                   |                   |                   |
| Max. Overcurrent Device (amps)      | 15                | 15                | 15                | 15                |
| <b>Shipping Weight (lbs)</b>        | 109               | 112               | 137               | 140               |

<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.

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.

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 connection in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- 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.

# AIRFLOW DATA

**\*MSS92**

## (CFM & Temperature Rise vs. External Static Pressure)

| Model             | Motor Speed | Tons AC <sup>1</sup> | External Static Pressure, (Inches Water Column) |      |       |      |       |      |       |      |       |      |       |       |       |
|-------------------|-------------|----------------------|---|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|
|                   |             |                      | 0.1   |      | 0.2   |      | 0.3   |      | 0.4   |      | 0.5   |      | 0.6   | 0.7   | 0.8   |
|                   |             |                      | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | CFM   | CFM   |
| *MSS92<br>0402BNA | High        | 3                    | 1,498   | N/A  | 1,446 | N/A  | 1,368 | N/A  | 1,302 | N/A  | 1,227 | N/A  | 1,145 | 1,059 | 954   |
|                   | Med         | 2.5                  | 1,223   | N/A  | 1,182 | N/A  | 1,153 | 30   | 1,099 | 31   | 1,051 | 32   | 982   | 901   | 813   |
|                   | Med-Lo      | 2                    | 983   | 35   | 971   | 35   | 945   | 36   | 919   | 37   | 878   | 39   | 813   | 746   | 659   |
|                   | Low         | 1.5                  | 816   | 42   | 794   | 43   | 758   | 45   | 734   | 46   | 678   | 50   | 637   | 597   | 523   |
| *MSS92<br>0603BNA | High        | 3                    | 1,494   | N/A  | 1,428 | 36   | 1,362 | 38   | 1,294 | 39   | 1,231 | 42   | 1,162 | 1,076 | 972   |
|                   | Med         | 2.5                  | 1,203   | 42   | 1,178 | 43   | 1,147 | 45   | 1,101 | 46   | 1,045 | 49   | 986   | 927   | 831   |
|                   | Med-Lo      | 2                    | 977   | 52   | 965   | 53   | 939   | 54   | 904   | 57   | 866   | 59   | 801   | 763   | 639   |
|                   | Low         | 1.5                  | 801   | 64   | 786   | 65   | 751   | N/A  | 714   | N/A  | 714   | N/A  | 680   | 635   | 596   |
| *MSS92<br>0803BNA | High        | 3                    | 1,459   | 47   | 1,397 | 49   | 1,339 | 51   | 1,270 | 54   | 1,202 | 57   | 1,107 | 1,049 | 952   |
|                   | Med         | 2.5                  | 1,191   | 57   | 1,166 | 58   | 1,137 | 60   | 1,086 | 63   | 1,033 | N/A  | 973   | 889   | 797   |
|                   | Med-Lo      | 2                    | 985   | N/A  | 967   | N/A  | 932   | N/A  | 900   | N/A  | 859   | N/A  | 805   | 731   | 620   |
|                   | Low         | 1.5                  | 808   | N/A  | 785   | N/A  | 758   | N/A  | 726   | N/A  | 679   | N/A  | 629   | 590   | 513   |
| *MSS92<br>0804CNA | High        | 5                    | 2,115   | N/A  | 2,050 | N/A  | 1,973 | 35   | 1,915 | 36   | 1,810 | 38   | 1,695 | 1,587 | 1,467 |
|                   | Med         | 4                    | 1,802   | 38   | 1,739 | 39   | 1,725 | 40   | 1,665 | 41   | 1,612 | 42   | 1,532 | 1,443 | 1,320 |
|                   | Med-Lo      | 3.5                  | 1,517   | 45   | 1,509 | 45   | 1,496 | 46   | 1,475 | 46   | 1,441 | 47   | 1,388 | 1,304 | 1,205 |
|                   | Low         | 3                    | 1,213   | 56   | 1,225 | 56   | 1,216 | 56   | 1,194 | 57   | 1,179 | 58   | 1,135 | 1,084 | 1,005 |
| *MSS92<br>0805CNA | High        | 5                    | 2,284   | 30   | 2,231 | 31   | 2,170 | 31   | 2,103 | 32   | 2,037 | 33   | 1,945 | 1,836 | 1,750 |
|                   | Med         | 4                    | 1,865   | 37   | 1,869 | 36   | 1,775 | 38   | 1,732 | 39   | 1,684 | 40   | 1,619 | 1,548 | 1,480 |
|                   | Med-Lo      | 3.5                  | 1,594   | 43   | 1,571 | 43   | 1,530 | 45   | 1,492 | 46   | 1,454 | 47   | 1,414 | 1,355 | 1,293 |
|                   | Low         | 3                    | 1,411   | 48   | 1,366 | 50   | 1,325 | 51   | 1,296 | 53   | 1,251 | 54   | 1,200 | 1,147 | 1,096 |
| *MSS92<br>1004CNA | High        | 5                    | 2,082   | 41   | 1,997 | 43   | 1,943 | 44   | 1,847 | 46   | 1,749 | 49   | 1,669 | 1,560 | 1,443 |
|                   | Med         | 4                    | 1,823   | 47   | 1,782 | 48   | 1,711 | 50   | 1,659 | 51   | 1,574 | 54   | 1,513 | 1,402 | 1,305 |
|                   | Med-Lo      | 3.5                  | 1,565   | 54   | 1,545 | 55   | 1,529 | 56   | 1,487 | 57   | 1,441 | 59   | 1,365 | 1,287 | 1,196 |
|                   | Low         | 3                    | 1,261   | N/A  | 1,237 | N/A  | 1,242 | N/A  | 1,216 | N/A  | 1,179 | N/A  | 1,145 | 1,098 | 1,034 |
| *MSS92<br>1005CNA | High        | 5                    | 2,137   | 40   | 2,073 | 41   | 2,031 | 42   | 1,949 | 44   | 1,879 | 45   | 1,811 | 1,734 | 1,625 |
|                   | Med         | 4                    | 1,793   | 48   | 1,754 | 49   | 1,704 | 50   | 1,648 | 52   | 1,590 | 54   | 1,534 | 1,451 | 1,371 |
|                   | Med-Lo      | 3.5                  | 1,558   | 55   | 1,518 | 56   | 1,477 | 58   | 1,425 | 60   | 1,376 | 62   | 1,316 | 1,242 | 1,170 |
|                   | Low         | 3                    | 1,370   | 62   | 1,325 | 64   | 1,288 | N/A  | 1,237 | N/A  | 1,191 | N/A  | 1,134 | 1,086 | 1,024 |
| *MSS92<br>1205DNA | High        | 5                    | 2,256   | 45   | 2,192 | 47   | 2,133 | 48   | 2,054 | 50   | 1,986 | 51   | 1,907 | 1,834 | 1,718 |
|                   | Med         | 4                    | 1,805   | 57   | 1,762 | 58   | 1,722 | 59   | 1,677 | 61   | 1,618 | 63   | 1,563 | 1,507 | 1,441 |
|                   | Med-Lo      | 3.5                  | 1,565   | 65   | 1,513 | N/A  | 1,480 | N/A  | 1,415 | N/A  | 1,392 | N/A  | 1,346 | 1,269 | 1,198 |
|                   | Low         | 3                    | 1,368   | N/A  | 1,326 | N/A  | 1,278 | N/A  | 1,238 | N/A  | 1,208 | N/A  | 1,165 | 1,093 | 1,052 |

<sup>1</sup> at 0.5" ESP

### Notes

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- This chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the rating plate.
- The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.



# AIRFLOW DATA

**\*CSS92**

## (CFM & Temperature Rise vs. External Static Pressure)

| Model             | Motor Speed | Tons AC <sup>1</sup> | External Static Pressure, (Inches Water Column) |      |       |      |       |      |       |      |       |      |       |       |       |
|-------------------|-------------|----------------------|---|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|
|                   |             |                      | 0.1   |      | 0.2   |      | 0.3   |      | 0.4   |      | 0.5   |      | 0.6   | 0.7   | 0.8   |
|                   |             |                      | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | Rise | CFM   | CFM   | CFM   |
| *CSS92<br>0402BNA | High        | 3                    | 1,400   | N/A  | 1,331 | N/A  | 1,263 | N/A  | 1,189 | N/A  | 1,106 | 31   | 1,020 | 941   | 843   |
|                   | Med         | 2.5                  | 1,204   | N/A  | 1,176 | N/A  | 1,121 | 30   | 1,072 | 32   | 1,002 | 34   | 927   | 853   | 740   |
|                   | Med-Lo      | 2                    | 1020  | 33   | 998   | 34   | 968   | 35   | 923   | 37   | 880   | 39   | 820   | 739   | 652   |
|                   | Low         | 1.5                  | 841   | 41   | 827   | 41   | 797   | 43   | 766   | 44   | 727   | 47   | 680   | 634   | 556   |
| *CSS92<br>0603BNA | High        | 3                    | 1,668   | 31   | 1,335 | 38   | 1,288 | 40   | 1,207 | 42   | 1,133 | 45   | 1,061 | 955   | 845   |
|                   | Med         | 2.5                  | 1,224   | 42   | 1,182 | 43   | 1,139 | 45   | 1,088 | 47   | 1,015 | 50   | 948   | 859   | 759   |
|                   | Med-Lo      | 2                    | 1030  | 50   | 1005  | 51   | 988   | 52   | 942   | 54   | 893   | 57   | 830   | 751   | 666   |
|                   | Low         | 1.5                  | 859   | 60   | 830   | 62   | 815   | 63   | 789   | 65   | 751   | N/A  | 693   | 629   | 556   |
| *CSS92<br>0804CNA | High        | 4                    | 1,770   | 39   | 1,645 | 41   | 1,610 | 42   | 1,528 | 45   | 1,437 | 47   | 1,340 | 1,251 | 1,141 |
|                   | Med         | 3.5                  | 1,690   | 40   | 1,615 | 42   | 1,531 | 45   | 1,470 | 46   | 1,393 | 49   | 1,308 | 1,196 | 1,099 |
|                   | Med-Lo      | 3.0                  | 1,612   | 42   | 1,540 | 44   | 1,472 | 46   | 1,398 | 49   | 1,306 | 52   | 1,223 | 1,132 | 1,010 |
|                   | Low         | 2.5                  | 1,396   | 49   | 1,339 | 51   | 1,304 | 52   | 1,250 | 55   | 1,170 | 58   | 1,092 | 1,010 | 906   |
| *CSS92<br>1005CNA | High        | 4                    | 1,793   | 48   | 1,699 | 50   | 1,610 | 53   | 1,533 | 56   | 1,461 | 58   | 1,363 | 1,247 | 1,146 |
|                   | Med         | 3.5                  | 1,693   | 50   | 1,622 | 53   | 1,552 | 55   | 1,467 | 58   | 1,390 | 61   | 1,320 | 1,205 | 1,083 |
|                   | Med-Lo      | 3.0                  | 1,632   | 52   | 1,546 | 55   | 1,493 | 57   | 1,415 | 60   | 1,332 | 64   | 1,257 | 1,148 | 1,054 |
|                   | Low         | 2.5                  | 1,429   | 60   | 1,380 | 62   | 1,334 | 64   | 1,258 | N/A  | 1,199 | N/A  | 1,136 | 1,041 | 942   |

<sup>1</sup> at 0.5" ESP

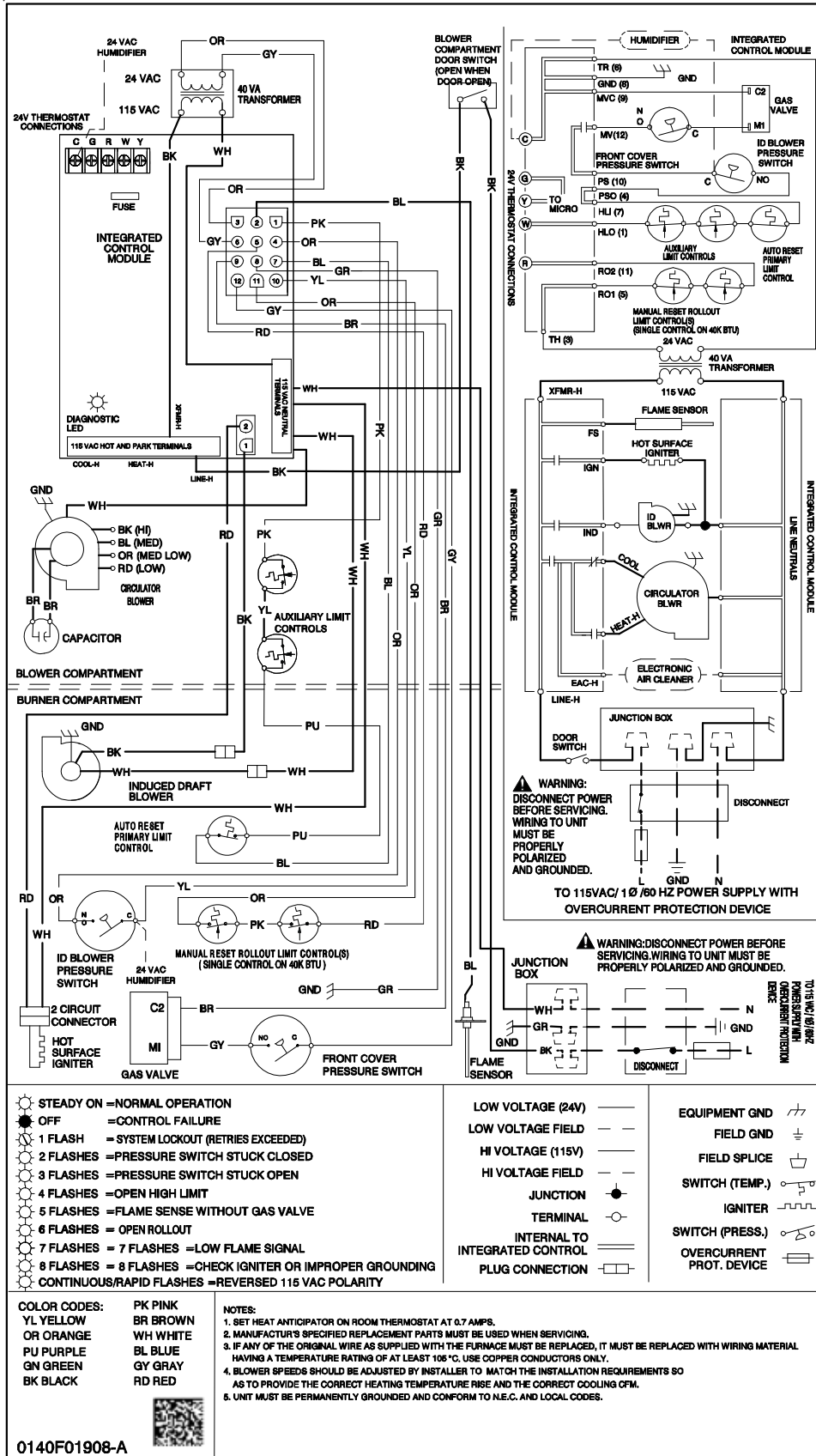
### Notes

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters,
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- This chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the
- The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.



**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 on the unit for the most up-to-date wiring.