

# **Amana**<sup>®</sup>

Heating & Air Conditioning  
**LASTS AND LASTS AND LASTS.**<sup>™</sup>

## Specification Sheet



**93% AFUE**

Heating Capacity:  
46,000–115,000 BTUH

### Limited Warranty

- **Lifetime** — Heat Exchanger
- **10-Year** — Unit Replacement if Heat Exchanger or Recuperative Coil Fails
- **5-Year** — Parts



**Asure**<sup>SM</sup>  
EXTENDED SERVICE PLAN



## DMS9 / DCS9 Distinctions<sup>™</sup>

### Gas Furnaces

*The Amana<sup>®</sup> Distinctions<sup>™</sup> brand DMS9/DCS9 Multi-Position, Single-Stage, Multi-Speed Gas Furnaces provide exceptional indoor comfort. With its single-stage gas valve, multi-speed circulator blower, the DMS9/DCS9 provide comfort all season long. This quiet furnace delivers a money-saving efficiency of 93% AFUE.*

**Patented Heat Exchanger.** Our patented, aluminized-steel heat exchanger and stainless-steel recuperative coil are backed by a lifetime limited warranty. The heat exchanger draws on three key technologies—wrinkle-bend technology, dual-diameter tubing and muffler joint technology—that work together with the physical properties of the tubes. The result is a tight, strong, long-lasting heat exchanger.

**Ignition System.** The Norton<sup>®</sup> mini-igniter is stronger, less porous and more reliable than standard silicon-carbide igniters. Patented, adaptive technology delivers just enough heat to the igniter without overheating.

**Integrated Control Board.** The DMS9/DCS9 operation is constantly monitored by an integrated ignition control and dedicated heating and cooling speeds; adjustable blower-off timing for customized comfort settings. The improved diagnostics allow for quick and easy service.

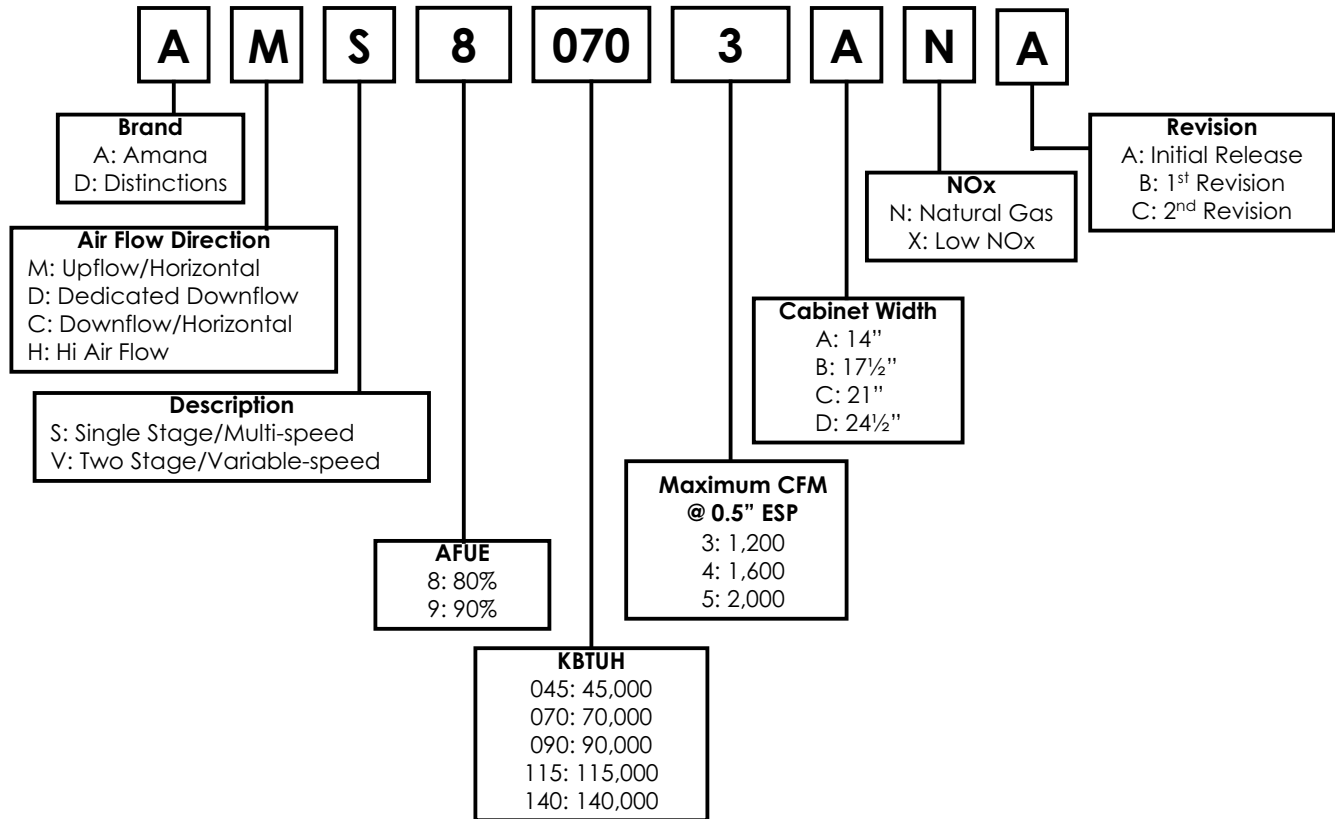
**Versatility.** Multi-position installation—DMS9: upflow, horizontal right or left; DCS9: downflow, horizontal right or left. Left or right gas pipe entry. A 40VA transformer is included for heating and air conditioning control service. Top venting is standard; alternate flue/vent located on right side. Terminals for electronic air cleaner and humidifier. Convertible to propane gas. Suitable for direct vent (2-pipe) or non-direct vent (1-pipe) applications.

**Durable Cabinet.** High-quality, post-painted steel cabinet resists rust and corrosion. The insulated cabinet assists in quiet, efficient operation. The false bottom allows for easy access, and a large view hole helps with servicing the unit.

**High Standards.** This furnace is completely assembled and factory run-tested for heating or combination heating/cooling applications. Complies with California NOx standards. Certified for Category IV venting.

# Specification Sheet

## Nomenclature



## Performance Ratings

| Model       | Natural Gas Input <sup>1</sup> BTUH | Output Heating Capacity BTUH |        | AFUE <sup>2</sup> | Tons AC @ 0.5" ESP | Temperature Rise Range (° F) |
|-------------|-------------------------------------|------------------------------|--------|-------------------|--------------------|------------------------------|
|             |                                     | Natural                      | LP     |                   |                    |                              |
| DMS90453BXA | 46,000                              | 42,800                       | 37,200 | 93.0              | 3.0                | 35 - 65                      |
| DMS90703BXA | 69,000                              | 64,400                       | 55,800 | 93.0              | 3.0                | 35 - 65                      |
| DMS90704CXA | 69,000                              | 64,400                       | 55,800 | 93.0              | 4.0                | 35 - 65                      |
| DMS90904CXA | 92,000                              | 86,000                       | 74,400 | 93.0              | 4.0                | 35 - 65                      |
| DMS90905DXA | 92,000                              | 86,000                       | 74,400 | 93.0              | 5.0                | 35 - 65                      |
| DMS91155DXA | 115,000                             | 106,500                      | 93,000 | 93.0              | 5.0                | 35 - 65                      |
| DCS90703BXA | 69,000                              | 64,400                       | 55,800 | 93.0              | 3.0                | 35 - 65                      |
| DCS90904CXA | 92,000                              | 86,000                       | 74,400 | 93.0              | 4.0                | 40 - 70                      |
| DCS91155DXA | 115,000                             | 106,500                      | 93,000 | 93.0              | 5.0                | 40 - 70                      |

<sup>1</sup> For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level.

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

## Specifications

| Model       | Circulator Blower |     |       | Vent Diameter <sup>1</sup> | No. of Burners | Filter Size (in <sup>2</sup> ) |            | Minimum Circuit Ampacity <sup>2</sup> (amps) | Maximum Overcurrent Protection <sup>3</sup> (amps) | Shipping Weight (pounds) |
|-------------|-------------------|-----|-------|----------------------------|----------------|--------------------------------|------------|----------------------------------------------|----------------------------------------------------|--------------------------|
|             | Size (D x W)      | HP  | Speed |                            |                | Permanent                      | Disposable |                                              |                                                    |                          |
| DMS90453BXA | 10" x 7"          | 1/3 | 4     | 2"                         | 2              | 288                            | 576        | 9.0                                          | 15                                                 | 132                      |
| DMS90703BXA | 10" x 8"          | 1/3 | 4     | 2"                         | 3              | 282                            | 564        | 9.0                                          | 15                                                 | 135                      |
| DMS90704CXA | 10" x 10"         | 1/2 | 4     | 2"                         | 3              | 260                            | 564        | 8.9                                          | 15                                                 | 136                      |
| DMS90904CXA | 10" x 10"         | 1/2 | 4     | 2"                         | 4              | 376                            | 752        | 8.9                                          | 15                                                 | 158                      |
| DMS90905DXA | 11" x 10"         | 3/4 | 4     | 2"                         | 4              | 376                            | 752        | 12.2                                         | 15                                                 | 172                      |
| DMS91155DXA | 11" x 10"         | 3/4 | 4     | 2"                         | 5              | 470                            | 940        | 12.2                                         | 15                                                 | 175                      |
| DCS90703BXA | 10" x 8"          | 1/3 | 4     | 2"                         | 3              | 282                            | 564        | 9.0                                          | 15                                                 | 136                      |
| DCS90904CXA | 10" x 10"         | 1/2 | 4     | 2"                         | 4              | 376                            | 752        | 8.9                                          | 15                                                 | 157                      |
| DCS91155DXA | 11" x 10"         | 3/4 | 4     | 2"                         | 5              | 470                            | 940        | 12.2                                         | 15                                                 | 171                      |

<sup>1</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>2</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps.

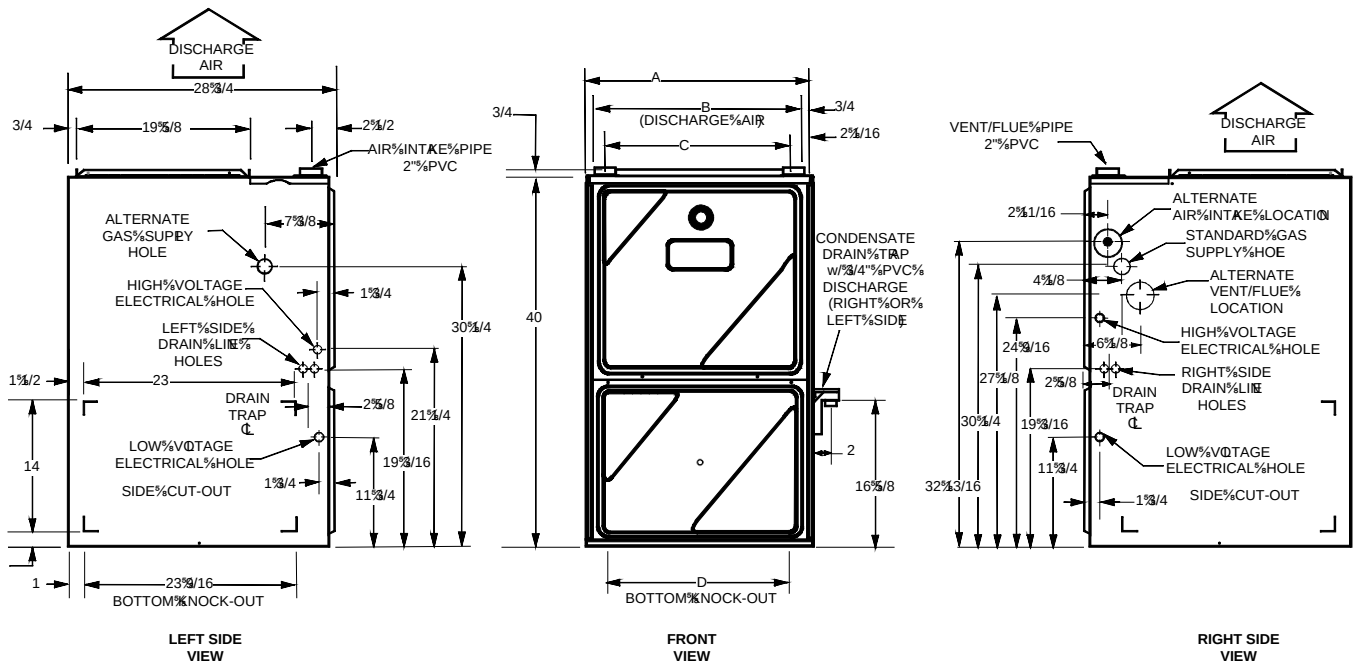
<sup>3</sup> Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.

### NOTES:

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

# Specification Sheet

## DMS9 Dimensions



| Model                      | A       | B       | C       | D       |
|----------------------------|---------|---------|---------|---------|
| DMS90453BXA<br>DMS90703BXA | 17 1/2" | 16"     | 12 3/8" | 13 5/8" |
| DMS90704CXA<br>DMS90904CXA | 21"     | 19 1/2" | 16 3/8" | 17 1/2" |
| DMS90905DXA<br>DMS91155DXA | 24 1/2" | 23"     | 20 3/8" | 20 7/8" |

### 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

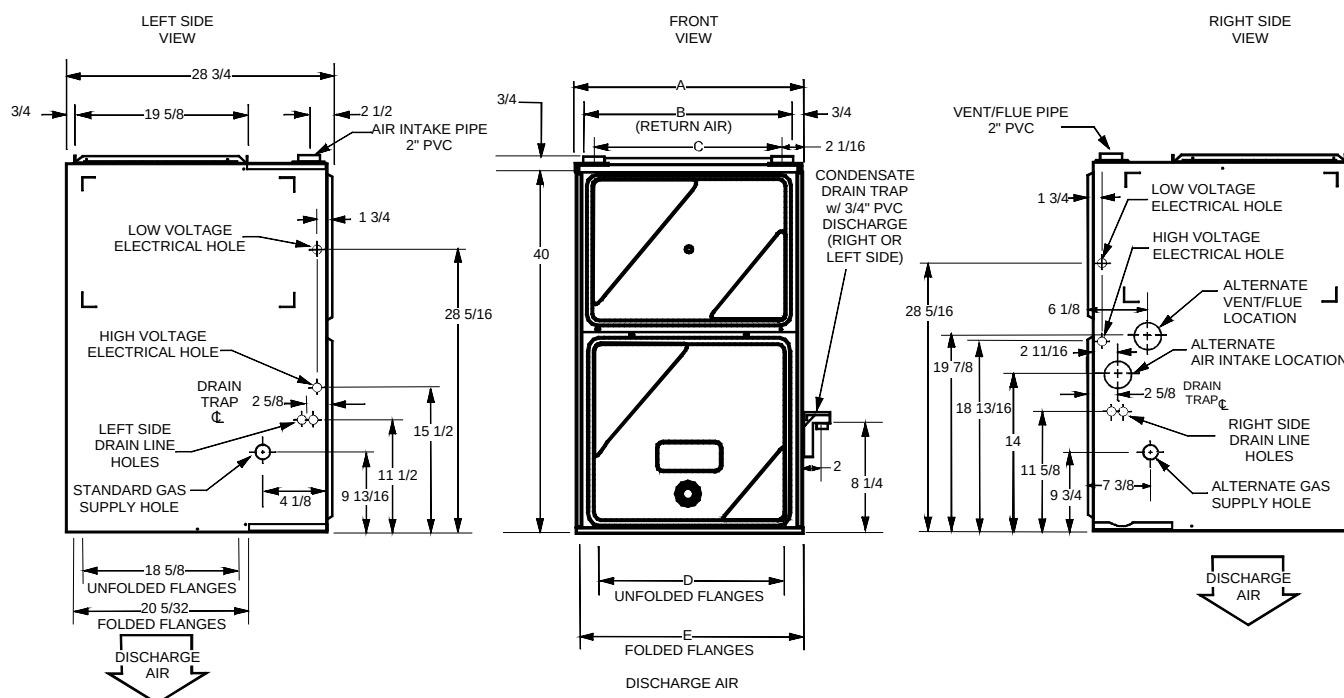
## Minimum Clearances to Combustible Materials

| Position   | Sides | Rear | Front | Bottom | Flue | Top |
|------------|-------|------|-------|--------|------|-----|
| Upflow     | 0"    | 0"   | 1"    | C      | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 1"    | C      | 0"   | 4"  |

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

- For servicing or cleaning, a 36" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed below.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.**

## DCS9 Dimensions



| Model       | A    | B    | C    | D    | E    |
|-------------|------|------|------|------|------|
| DCS90703BXA | 17½" | 16"  | 13⅞" | 14½" | 16"  |
| DCS90904CXA | 21"  | 19½" | 16⅞" | 18"  | 19½" |
| DCS91155DXA | 24½" | 23"  | 20⅞" | 21½" | 23"  |

### Notes:

1. 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.
2. 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.
3. Conversion kits for high altitude natural gas operation are available. Contact your Amana distributor or dealer for details.
4. 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

## Minimum Clearances to Combustible Materials

| Position   | Sides | Rear | Front | Bottom | Flue | Top |
|------------|-------|------|-------|--------|------|-----|
| Downflow   | 0"    | 0"   | 1"    | NC     | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 1"    | C      | 0"   | 4"  |

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

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

- For servicing or cleaning, a 36" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed below.
- **In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.**

# Specification Sheet

## DMS9 Blower Performance Specifications

| (CFM & Temperature Rise vs. External Static Pressure) |             |                     |                                                 |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------|-------------|---------------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model                                                 | Motor Speed | Tons AC at 0.5" ESP | 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  |
| DMS90453BXA                                           | HIGH        | 3.0                 | 1352                                            | 29   | 1318 | 30   | 1260 | 31   | 1202 | 33   | 1128 | 35   | 1044 | 955  | 853  |
|                                                       | MED         | 2.5                 | 1214                                            | 32   | 1172 | 34   | 1123 | 35   | 1064 | 37   | 1012 | 39   | 938  | 859  | 741  |
|                                                       | MED-LO      | 2.0                 | 997                                             | 40   | 994  | 40   | 960  | 41   | 923  | 43   | 884  | 45   | 817  | 741  | 611  |
|                                                       | LOW         | 1.5                 | 757                                             | 52   | 753  | 52   | 734  | 54   | 704  | 56   | 674  | 59   | 620  | 524  | 438  |
| DMS90703BXA                                           | HIGH        | 3.0                 | 1449                                            | 41   | 1409 | 42   | 1326 | 45   | 1273 | 47   | 1201 | 49   | 1194 | 1136 | 1018 |
|                                                       | MED         | 2.5                 | 1192                                            | 50   | 1172 | 51   | 1141 | 52   | 1094 | 54   | 1046 | 57   | 973  | 904  | 793  |
|                                                       | MED-LO      | 2.0                 | 981                                             | 61   | 962  | 62   | 943  | 63   | 917  | 65   | 888  | 67   | 830  | 764  | 665  |
|                                                       | LOW         | 1.5                 | 750                                             | 79   | 730  | 81   | 714  | 83   | 692  | 86   | 657  | 90   | 620  | 570  | 502  |
| DMS90704CXA                                           | HIGH        | 4.0                 | 2069                                            | 29   | 1965 | 30   | 1871 | 32   | 1756 | 34   | 1661 | 36   | 1549 | 1415 | 1275 |
|                                                       | MED         | 3.5                 | 1752                                            | 34   | 1724 | 34   | 1667 | 36   | 1603 | 37   | 1488 | 40   | 1402 | 1290 | 1082 |
|                                                       | MED-LO      | 3.0                 | 1437                                            | 41   | 1437 | 41   | 1417 | 42   | 1369 | 43   | 1320 | 45   | 1256 | 1140 | 984  |
|                                                       | LOW         | 2.5                 | 1184                                            | 50   | 1177 | 50   | 1161 | 51   | 1132 | 52   | 1095 | 54   | 1047 | 928  | 837  |
| DMS90904CXA                                           | HIGH        | 4.0                 | 1970                                            | 40   | 1874 | 42   | 1757 | 45   | 1667 | 48   | 1566 | 51   | 1431 | 1334 | 1182 |
|                                                       | MED         | 3.5                 | 1713                                            | 46   | 1650 | 48   | 1572 | 50   | 1510 | 52   | 1418 | 56   | 1313 | 1211 | 1079 |
|                                                       | MED-LO      | 3.0                 | 1439                                            | 55   | 1412 | 56   | 1370 | 58   | 1327 | 60   | 1260 | 63   | 1166 | 1078 | 956  |
|                                                       | LOW         | 2.5                 | 1183                                            | 67   | 1155 | 69   | 1122 | 71   | 1108 | 72   | 1062 | 75   | 1011 | 931  | 816  |
| DMS90905DXA                                           | HIGH        | 5.0                 | 2147                                            | 37   | 2114 | 37   | 2057 | 39   | 2030 | 39   | 1978 | 40   | 1889 | 1784 | 1713 |
|                                                       | MED         | 4.0                 | 1675                                            | 47   | 1686 | 47   | 1640 | 48   | 1623 | 49   | 1557 | 51   | 1501 | 1455 | 1360 |
|                                                       | MED-LO      | 3.5                 | 1489                                            | 53   | 1470 | 54   | 1436 | 55   | 1409 | 56   | 1361 | 58   | 1318 | 1243 | 1130 |
|                                                       | LOW         | 3.0                 | 1307                                            | 61   | 1265 | 63   | 1234 | 64   | 1203 | 66   | 1168 | 68   | 1096 | 1053 | 991  |
| DMS1155DXA                                            | HIGH        | 5.0                 | 2134                                            | 46   | 2103 | 47   | 2029 | 48   | 1941 | 51   | 1906 | 51   | 1818 | 1733 | 1625 |
|                                                       | MED         | 4.0                 | 1678                                            | 58   | 1643 | 60   | 1643 | 60   | 1577 | 62   | 1527 | 64   | 1489 | 1423 | 1339 |
|                                                       | MED-LO      | 3.5                 | 1453                                            | 68   | 1440 | 68   | 1426 | 69   | 1363 | 72   | 1349 | 73   | 1314 | 1253 | 1205 |
|                                                       | LOW         | 3.0                 | 1259                                            | 78   | 1239 | 79   | 1220 | 80   | 1181 | 83   | 1159 | 85   | 1118 | 1082 | 1015 |

1. CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer.
2. All furnaces ship as high-speed cooling & medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
6. 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.

## DCS9 Blower Performance Specifications

| (CFM & Temperature Rise vs. External Static Pressure) |             |                     |                                                 |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------|-------------|---------------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model                                                 | Motor Speed | Tons AC at 0.5" ESP | 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  |
| DCS90703BXA                                           | HIGH        | 3.0                 | 1449                                            | 41   | 1409 | 42   | 1326 | 45   | 1273 | 47   | 1201 | 49   | 1194 | 1136 | 1018 |
|                                                       | MED         | 2.5                 | 1192                                            | 50   | 1172 | 51   | 1141 | 52   | 1094 | 54   | 1046 | 57   | 973  | 904  | 793  |
|                                                       | MED-LO      | 2.0                 | 981                                             | 61   | 962  | 62   | 943  | 63   | 917  | 65   | 888  | 67   | 830  | 764  | 665  |
|                                                       | LOW         | 1.5                 | 750                                             | 79   | 730  | 81   | 714  | 83   | 692  | 86   | 657  | 90   | 620  | 570  | 502  |
| DCS90904CXA                                           | HIGH        | 4.0                 | 1970                                            | 40   | 1874 | 42   | 1757 | 45   | 1667 | 48   | 1566 | 51   | 1431 | 1334 | 1182 |
|                                                       | MED         | 3.5                 | 1713                                            | 46   | 1650 | 48   | 1572 | 50   | 1510 | 52   | 1418 | 56   | 1313 | 1211 | 1079 |
|                                                       | MED-LO      | 3.0                 | 1439                                            | 55   | 1412 | 56   | 1370 | 58   | 1327 | 60   | 1260 | 63   | 1166 | 1078 | 956  |
|                                                       | LOW         | 2.5                 | 1183                                            | 67   | 1155 | 69   | 1122 | 71   | 1108 | 72   | 1062 | 75   | 1011 | 931  | 816  |
| DCS1155DXA                                            | HIGH        | 5.0                 | 2134                                            | 46   | 2103 | 47   | 2029 | 48   | 1941 | 51   | 1906 | 51   | 1818 | 1733 | 1625 |
|                                                       | MED         | 4.0                 | 1678                                            | 58   | 1643 | 60   | 1643 | 60   | 1577 | 62   | 1527 | 64   | 1489 | 1423 | 1339 |
|                                                       | MED-LO      | 3.5                 | 1453                                            | 68   | 1440 | 68   | 1426 | 69   | 1363 | 72   | 1349 | 73   | 1314 | 1253 | 1205 |
|                                                       | LOW         | 3.0                 | 1259                                            | 78   | 1239 | 79   | 1220 | 80   | 1181 | 83   | 1159 | 85   | 1118 | 1082 | 1015 |

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5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
6. 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.

# Specification Sheet

## Accessories

| Model   | Description                       | D_S90453BXA | D_S90703BXA | D_S90704CXA | D_S90904CXA | D_S90905DXA | D_S91155DXA |
|---------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| LPLP01  | L.P. Gas Low Pressure Kit         | X           | X           | X           | X           | X           | X           |
| LPT-00A | Propane Conversion Kit            | 3           | 3           | 3           | 3           | 3           | 3           |
| HANG11  | High Altitude Natural Gas Kit     | 1           | 1           | 1           | 1           | 1           | 1           |
| HANG12  | High Altitude Natural Gas Kit     | 2           | 2           | 2           | 2           | 2           | 2           |
| HALP10  | High Altitude L.P. Gas Kit        | 4           | 4           | 4           | 4           | 4           | 4           |
| HAPS27  | High Altitude Pressure Switch Kit | 4           | 4           | 4           | 4           | 4           | 4           |

(X) Available for this model

(1) 7,001' to 9,000'

(2) 9,001' to 11,000'

(3) 0 to 7,000'

(4) 7,001' to 11,000'

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

**Downflow Floor Base:** When the DCS9 model is installed directly on a wood floor, a downflow floor base must be used. Those model numbers are: CFB17, CFB21 and CFB24.

## Thermostats

| Model           | Two-Stage Thermostat Description                                                            | Color/Shape       |
|-----------------|---------------------------------------------------------------------------------------------|-------------------|
| <b>1213401</b>  | Programmable, Manual Changeover, 1 Heat/1 Cool, Battery Powered/<br>No Battery Back-up      | White/Rectangular |
| <b>1213402</b>  | Non-Programmable, Manual Changeover, 1 Heat/1 Cool, Battery Powered/<br>No Battery Back-up  | White/Rectangular |
| <b>1213701</b>  | Programmable, Automatic Changeover, 1 Heat/1 Cool, Electric Powered/<br>Battery Back-up     | White/Rectangular |
| <b>C5200607</b> | Non-Programmable, Manual Changeover, 1 Heat/1 Cool, Electric Powered/<br>No Battery Back-up | Gold/Round        |



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