

### SPECIFICATIONS

#### Installation Features

- Left or right utility connections
- Removable floor base for bottom return air
- Zero step horizontal conversion

#### Configurations

- Upflow / Horizontal

#### Heat Exchanger Design

- Aluminized steel tubular heat exchanger

#### Burners

- Aluminized steel inshot burners for smooth ignition

#### Cabinet Design

- Compact 33" height
- Standardized widths for easy coil fit

#### Air Delivery System

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment

#### Controls

- Single stage gas valve
- Durable silicon nitride ignitor
- Self diagnostics saving last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

#### Venting

- Rotatable draft inducer for venting flexibility

*Comfort-Aire®*

### SINGLE STAGE CONSTANT TORQUE ULTRA LOW NOX GAS FURNACE

80%

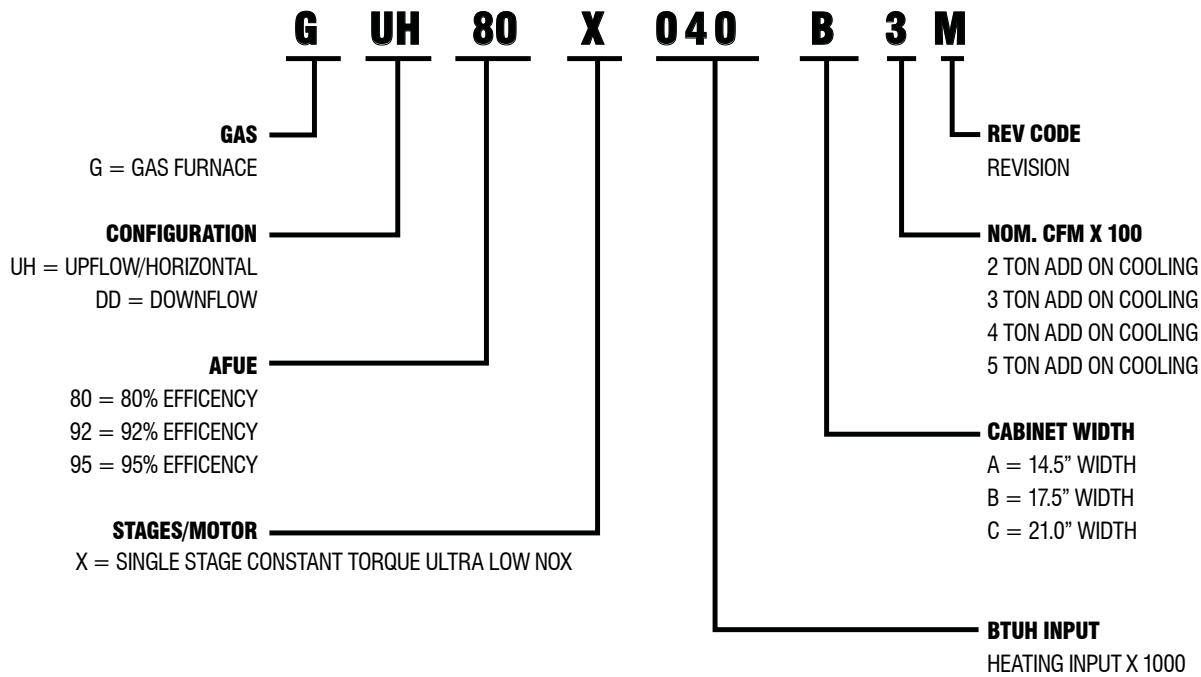


*This furnace meets the South Coast Air Quality Management District (SCAQMD) Rule 1111 and San Joaquin Valley Air Pollution Control District (SJVAPCD) Rule 4905 NOx emission limit (14 ng/J) and can be installed within the SCAQMD or SJVAPCD and Bay Area.*

**Warranty**—20 years on heat exchanger, 6 years on parts  
(Some limitations apply; see printed warranty for details.)

[www.comfort-aire.com](http://www.comfort-aire.com)

## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL DATA

|                            | Model        | Input (Btuh) | Output (Btuh) | AFUE (ICS) | Nom. Cooling Capacity | Gas Inlet (in.) | Volts/ Hz/ Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|----------------------------|--------------|--------------|---------------|------------|-----------------------|-----------------|------------------|---------------------------------|----------------|---------------|--------------------------------|
| <b>UPFLOW / HORIZONTAL</b> | GUH80X040A3M | 40,000       | 33,000        | 80%        | 3 Ton                 | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 119                            |
|                            | GUH80X060A3M | 60,000       | 48,000        | 80%        | 3 Ton                 | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 119                            |
|                            | GUH80X080B4M | 80,000       | 64,000        | 80%        | 4 Ton                 | 1/2             | 120-60-1         | 15                              | 8.4            | 40            | 140                            |
|                            | GUH80X100C5M | 100,000      | 80,000        | 80%        | 5 Ton                 | 1/2             | 120-60-1         | 15                              | 10.9           | 40            | 157                            |

Note: For vent sizing and clearances to combustibles, please reference installation instructions.

## BLOWER PERFORMANCE DATA - GUH80X100C5M

| External Static Pressure in. w.g. | Air Volume / Watts at Different Blower Speeds                                                                                        |       |          |       |        |       |         |       |      |       |                                                                                                                                                                      |            |             |            |        |       |         |       |      |       |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|--------|-------|---------|-------|------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------|--------|-------|---------|-------|------|-------|
|                                   | Bottom Return Air, Side Return Air with Optional Return Air Base, Return Air from Both Sides or Return Air from Bottom and One Side. |       |          |       |        |       |         |       |      |       | Single Side Return Air – Air volumes in bold require field fabricated transition to accommodate 20 x 25 x 1 in. air filter in order to maintain proper air velocity. |            |             |            |        |       |         |       |      |       |
|                                   |                                                                                                                                      |       |          |       |        |       |         |       |      |       |                                                                                                                                                                      |            |             |            |        |       |         |       |      |       |
|                                   | High                                                                                                                                 |       | Med-High |       | Medium |       | Med-Low |       | Low  |       | High                                                                                                                                                                 |            | Med-High    |            | Medium |       | Med-Low |       | Low  |       |
|                                   | cfm                                                                                                                                  | Watts | cfm      | Watts | cfm    | Watts | cfm     | Watts | cfm  | Watts | cfm                                                                                                                                                                  | Watts      | cfm         | Watts      | cfm    | Watts | cfm     | Watts | cfm  | Watts |
| 0.10                              | 2216                                                                                                                                 | 637   | 1961     | 438   | 1707   | 305   | 1576    | 245   | 1457 | 193   | <b>2245</b>                                                                                                                                                          | <b>633</b> | <b>1980</b> | <b>427</b> | 1763   | 299   | 1592    | 240   | 1486 | 194   |
| 0.20                              | 2165                                                                                                                                 | 663   | 1921     | 460   | 1667   | 324   | 1515    | 255   | 1323 | 190   | <b>2200</b>                                                                                                                                                          | <b>652</b> | <b>1931</b> | <b>454</b> | 1685   | 323   | 1533    | 253   | 1343 | 189   |
| 0.30                              | 2129                                                                                                                                 | 684   | 1853     | 486   | 1624   | 344   | 1460    | 275   | 1262 | 208   | <b>2147</b>                                                                                                                                                          | <b>678</b> | <b>1876</b> | <b>474</b> | 1640   | 343   | 1470    | 273   | 1276 | 205   |
| 0.40                              | 2060                                                                                                                                 | 710   | 1818     | 508   | 1559   | 365   | 1401    | 294   | 1193 | 222   | <b>2110</b>                                                                                                                                                          | <b>702</b> | <b>1815</b> | <b>491</b> | 1574   | 358   | 1424    | 292   | 1198 | 219   |
| 0.50                              | 2030                                                                                                                                 | 726   | 1775     | 526   | 1515   | 380   | 1346    | 317   | 1134 | 238   | <b>2064</b>                                                                                                                                                          | <b>725</b> | 1777        | 516        | 1525   | 375   | 1360    | 312   | 1134 | 236   |
| 0.60                              | 1985                                                                                                                                 | 749   | 1707     | 547   | 1453   | 401   | 1312    | 332   | 1080 | 252   | <b>2025</b>                                                                                                                                                          | <b>744</b> | 1726        | 533        | 1476   | 398   | 1311    | 330   | 1083 | 253   |
| 0.70                              | 1931                                                                                                                                 | 769   | 1662     | 567   | 1405   | 419   | 1238    | 346   | 1012 | 269   | <b>1973</b>                                                                                                                                                          | <b>765</b> | 1673        | 558        | 1417   | 420   | 1243    | 344   | 1025 | 268   |
| 0.80                              | 1882                                                                                                                                 | 789   | 1617     | 586   | 1364   | 438   | 1190    | 364   | 946  | 278   | <b>1925</b>                                                                                                                                                          | <b>788</b> | 1636        | 577        | 1372   | 436   | 1193    | 361   | 955  | 277   |
| 0.90                              | 1832                                                                                                                                 | 807   | 1565     | 606   | 1317   | 457   | 1135    | 381   | 893  | 294   | <b>1883</b>                                                                                                                                                          | <b>806</b> | 1575        | 597        | 1312   | 457   | 1148    | 378   | 908  | 293   |
| 1.00                              | 1727                                                                                                                                 | 772   | 1533     | 623   | 1244   | 468   | 1059    | 397   | 823  | 304   | 1785                                                                                                                                                                 | 789        | 1531        | 616        | 1263   | 469   | 1089    | 390   | 838  | 301   |

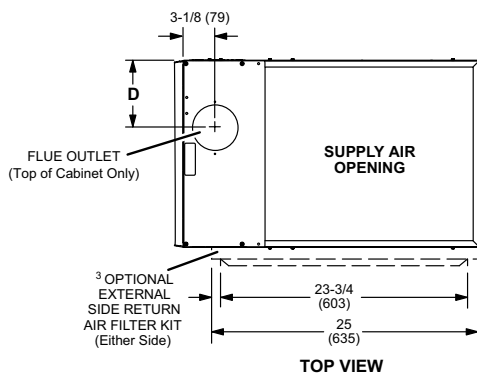
## BLOWER PERFORMANCE DATA

| Model        | External Static Pressure<br>in. w.g. | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |      |       |
|--------------|--------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|------|-------|
|              |                                      | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low  |       |
|              |                                      | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm  | Watts |
| GUH80X040A3M | 0.10                                 | 1389                                        | 251   | 1146        | 156   | 1007   | 111   | 963        | 98    | 945  | 94    |
|              | 0.20                                 | 1355                                        | 267   | 1098        | 171   | 935    | 115   | 826        | 89    | 789  | 79    |
|              | 0.30                                 | 1315                                        | 280   | 1068        | 184   | 881    | 126   | 768        | 97    | 646  | 75    |
|              | 0.40                                 | 1278                                        | 287   | 1022        | 194   | 837    | 133   | 709        | 108   | 593  | 84    |
|              | 0.50                                 | 1247                                        | 303   | 978         | 203   | 782    | 144   | 646        | 116   | 529  | 92    |
|              | 0.60                                 | 1199                                        | 317   | 948         | 216   | 719    | 151   | 602        | 126   | 471  | 102   |
|              | 0.70                                 | 1176                                        | 328   | 899         | 228   | 679    | 163   | 537        | 131   | 422  | 106   |
|              | 0.80                                 | 1128                                        | 344   | 860         | 235   | 627    | 172   | 500        | 141   | 382  | 115   |
|              | 0.90                                 | 1075                                        | 347   | 821         | 246   | 577    | 179   | 454        | 146   | 320  | 118   |
|              | 1.00                                 | 966                                         | 322   | 771         | 256   | 546    | 188   | 416        | 154   | 292  | 121   |
| GUH80X060A3M | 0.10                                 | 1389                                        | 251   | 1146        | 156   | 1007   | 111   | 963        | 98    | 945  | 94    |
|              | 0.20                                 | 1355                                        | 267   | 1098        | 171   | 935    | 115   | 826        | 89    | 789  | 79    |
|              | 0.30                                 | 1315                                        | 280   | 1068        | 184   | 881    | 126   | 768        | 97    | 646  | 75    |
|              | 0.40                                 | 1278                                        | 287   | 1022        | 194   | 837    | 133   | 709        | 108   | 593  | 84    |
|              | 0.50                                 | 1247                                        | 303   | 978         | 203   | 782    | 144   | 646        | 116   | 529  | 92    |
|              | 0.60                                 | 1199                                        | 317   | 948         | 216   | 719    | 151   | 602        | 126   | 471  | 102   |
|              | 0.70                                 | 1176                                        | 328   | 899         | 228   | 679    | 163   | 537        | 131   | 422  | 106   |
|              | 0.80                                 | 1128                                        | 344   | 860         | 235   | 627    | 172   | 500        | 141   | 382  | 115   |
|              | 0.90                                 | 1075                                        | 347   | 821         | 246   | 577    | 179   | 454        | 146   | 320  | 118   |
|              | 1.00                                 | 966                                         | 322   | 771         | 256   | 546    | 188   | 416        | 154   | 292  | 121   |
| GUH80X080B4M | 0.10                                 | 1828                                        | 419   | 1640        | 297   | 1503   | 238   | 1440       | 209   | 1240 | 147   |
|              | 0.20                                 | 1775                                        | 438   | 1571        | 318   | 1446   | 255   | 1385       | 229   | 1187 | 159   |
|              | 0.30                                 | 1727                                        | 457   | 1515        | 335   | 1393   | 275   | 1323       | 244   | 1110 | 173   |
|              | 0.40                                 | 1676                                        | 473   | 1477        | 349   | 1340   | 292   | 1263       | 259   | 1058 | 190   |
|              | 0.50                                 | 1632                                        | 490   | 1422        | 376   | 1290   | 309   | 1200       | 276   | 991  | 201   |
|              | 0.60                                 | 1575                                        | 509   | 1370        | 391   | 1227   | 326   | 1154       | 290   | 922  | 218   |
|              | 0.70                                 | 1502                                        | 507   | 1309        | 407   | 1171   | 343   | 1092       | 305   | 869  | 232   |
|              | 0.80                                 | 1335                                        | 460   | 1267        | 422   | 1114   | 357   | 1043       | 320   | 804  | 243   |
|              | 0.90                                 | 1115                                        | 395   | 1091        | 381   | 1047   | 367   | 984        | 334   | 735  | 255   |
|              | 1.00                                 | 829                                         | 310   | 845         | 322   | 846    | 318   | 858        | 321   | 669  | 266   |

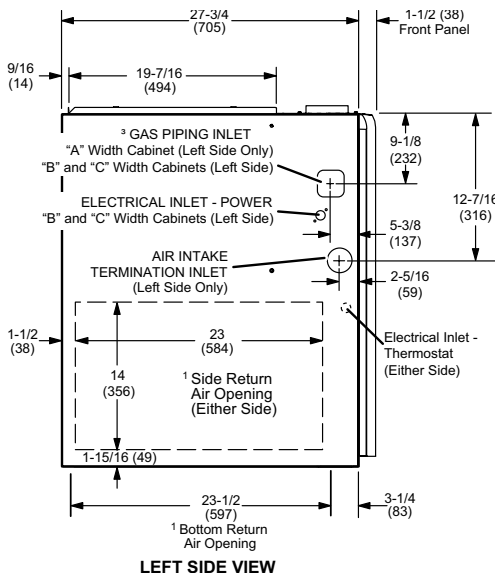
*Comfort-Cure*®

## DIMENSIONS (IN.)

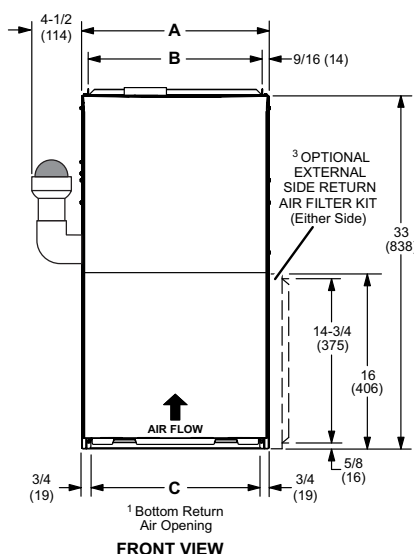
| Model        | A      | B      | C      | D     |
|--------------|--------|--------|--------|-------|
| GUH80X040A3M | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
| GUH80X060A3M | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
| GUH80X080B4M | 17-1/2 | 16-3/8 | 16     | 6-1/4 |
| GUH80X100C5M | 21     | 19-7/8 | 19-1/2 | 8     |



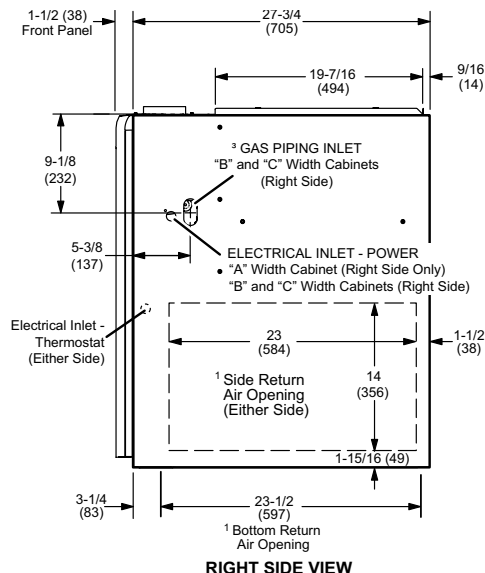
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW

## ACCESSORY LIST

| Catalog Number                      | Description                              |
|-------------------------------------|------------------------------------------|
| <b>External Filter Rack kits</b>    |                                          |
| 1.841018                            | 1 Pack (16x25)                           |
| 1.841039                            | 10 Pack (16x25)                          |
| <b>Return Air Base</b>              |                                          |
| 68W61                               | 14.5", A Width                           |
| 68W62                               | 17.5", B Width                           |
| 68W63                               | 21.0", C Width                           |
| <b>Horizontal Suspension Kits</b>   |                                          |
| 51W10                               | 80 & 90% Kit                             |
| <b>2-Stage Compressor Relay Kit</b> |                                          |
| 85W66                               | Blower Relay Kit                         |
| <b>Twinning kit</b>                 |                                          |
| 16W72                               | Constant Torque Gas Furnace Twinning Kit |

Note: For vent sizing and clearances to combustibles, please reference installation instructions.

2-Stage Compressor Relay Kit 2-Stage Compressor Relay Kit

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations. Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/ rebate programs.

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."