



**G24M SERIES  
MULTI-POSITION GAS FURNACES**

**10.5 to 32.8 kW (36 000 to 112 000 Btuh) Output  
3.5 thru 17.6 kW (1-1/2 thru 5 Tons) Add-on Cooling Capacity**

**G24M**

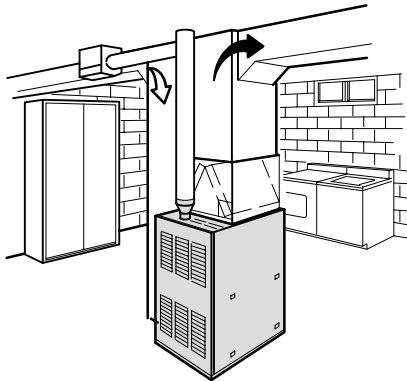
Bulletin #490045

January 1999

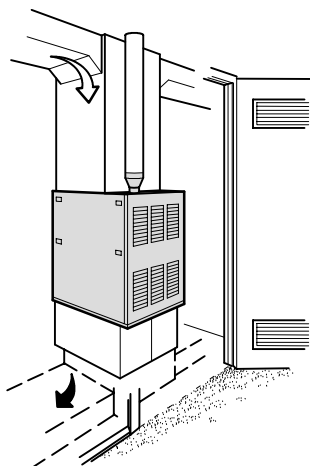
Supersedes

December 1996

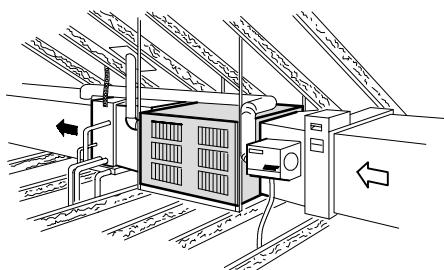
**Typical Applications**



Up-Flow Utility Room Installation  
With Cooling Coil  
and Automatic Humidifier



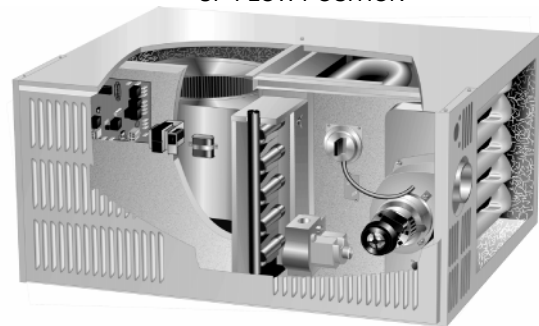
Down-Flow Closet Installation  
With Cooling Coil



Horizontal Attic Installation  
With Cooling Coil, Electronic Air Cleaner  
and Automatic Humidifier



UP-FLOW POSITION



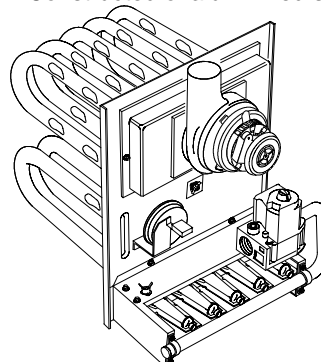
HORIZONTAL POSITION

**Applications**

- G24M series gas fired furnaces include eight models (natural gas or propane) with input capacities of 13.2, 17.6, 22.0, 29.3, 35.2 and 41.0 kW (45 000, 60 000, 75 000, 100 000, 120 000 and 140 000 Btuh).
- Up-flow, down-flow or horizontal applications.
- Lennox add-on evaporator coils, electronic air cleaners and power humidifiers can be easily added to the furnace.
- Units are shipped factory assembled with all controls installed and wired.
- Each unit is factory test operated to insure proper operation.

**Tubular Aluminized Steel Heat Exchanger**

- Constructed of aluminized steel for superior resistance to corrosion and oxidation.
- Curving design allows complete exposure of heating surfaces to supply air stream.
- Round surfaces create minimum air resistance and allow air to surround all surfaces for excellent heat transfer.
- Compact design reduces space requirements in unit cabinet.
- Heat exchanger has been laboratory life cycle tested.



## FEATURES

### Induced Draft Blower

- Induced draft blower prepurges heat exchanger and safely vents flue products.
- Blower is controlled by the furnace control center board for a pre-purge cycle (15 seconds) and a post purge cycle (5 seconds).
- Pressure switch proves blower operation before allowing gas valve to open.
- Induced draft blower operates only during heating cycle.

### Inshot Burners

- Aluminized steel inshot burners provide efficient trouble free operation.
- Burner venturi mixes air and gas in correct proportion for proper combustion.
- Burner assembly is removeable from the unit as a single component for ease of service and each burner may be removed individually.

### Gas Control Valve

- 24 volt redundant combination gas control valve combines a manual main shutoff valve, pressure regulation and automatic electric valve (dual) into one compact combination control.

### Direct Spark Ignition

- Solid-state electronic direct spark ignition control provides positive and safe main burner ignition.
- Spark is intermittent and occurs only when required.
- Separate electronic flame sensor control assures safe and reliable operation.
- Should loss of flame occur during ignition or heating operation, the control will initiate 5 tries at re-ignition before defaulting to "lock-out" mode. "Lock-out" can be manually reset by powering unit off, then on.
- Ignition control has light emitting diode (LED) to indicate status and as an aid in troubleshooting.

### Cabinet

- Constructed of heavy gauge, cold rolled steel with a primed and pre-painted topcoat finish.
- Cabinet surface temperatures are low due to foil faced fiberglass insulation on side and back panels of heat section.
- Blower section is completely insulated with mat faced fiberglass insulation.
- Complete service access is accomplished by removing one piece front panel and interior blower access door.
- Blower assembly may be completely removed from unit for service.
- Safety interlock switch located on blower access door automatically shuts off power to the unit when door is removed.
- Gas piping inlets are provided in both sides and top of cabinet.
- Electrical knockouts are provided in both sides, top and bottom of cabinet.
- Units have flanges on top and bottom of cabinet that may be bent out for duct connection to unit. See dimension drawing.
- Painted panel is furnished to block off bottom air return air. Return air entry is possible on either side or bottom of cabinet for up-flow applications. End return air entry is available for horizontal applications.

### Multi-Position Capability

- Shipped for up-flow applications and horizontal applications with right hand or left hand air discharge.
- For down-flow applications, interchange top and bottom caps, remove heat exchanger section, rotate 180° top for bottom and re-install.

### Flame Rollout Switches

- Dual manual reset switches are furnished as standard and are factory installed on either side of the burner box.
- Switches prevent unit operation in the event combustion products passage through the flueway is reduced or blocked.

### Limit Controls

- Factory installed and accurately located limit controls provide protection from abnormal operating conditions.
- Primary limit is located on heating compartment vestibule panel.
- Two secondary limits are located on either side of the blower housing.
- If the limits fail 5 times during an unsatisfied thermostat demand, the control will default to the 60 minute "Watchguard" mode.
- The Watchguard circuit automatically resets ignition control after one hour of continuous thermostat demand, eliminating nuisance service calls.

### Furnace Control Center Board

- Furnished and factory installed on interior blower access door.
- Solid-state board contains all necessary controls and relays to operate blower, gas valve, combustion air blower and ignition.
- Board also monitors flame, limit and gas valve operation.
- Fan control consists of blower timed-off delay (adjustable from 60 to 120 seconds, factory set at 180 seconds) and non-adjustable blower timed-on delay (45 seconds).
- For air-conditioning applications, blower is automatically energized on thermostat demand for cooling.
- Continuous low speed blower operation is furnished on board.
- Also included is a low voltage terminal strip for thermostat connections.
- Two diagnostic LED's are furnished on board as an aid in servicing the system.
- Two 240 volt accessory terminals are provided on control board for operation of accessories during unit operation.

### Transformer

- 24 volt control transformer is furnished as standard equipment and is factory installed on control panel.

### Direct Drive Blower

- Units are equipped with quiet multi-speed direct drive blower.
- Each blower assembly is statically and dynamically balanced.
- Multiple-speed leadless motor is resiliently mounted.
- See blower performance tables.

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

### Propane Conversion Kit (Optional)

- For propane models a conversion kit is required for field changeover from natural gas.
- Kit is not furnished and must be ordered extra. See specifications table for order number.

### Thermostat (Optional)

- Heating thermostat is not furnished and must be ordered extra. See Thermostat bulletin and Lennox Price Book.
- For all-season applications, heating and cooling thermostat is available with the condensing unit.

### Up-flow/Horizontal Filter Kit (Optional)

- Cleanable polyurethane or aluminum mesh type air filter and external rack available for field installation.
- Includes adjustable filter rack with access door, filter removal tool for bottom return air applications and filter. Available in ten packs. See Specifications table for filter sizes and catalog numbers.

### Down-Flow Filter Rack (Optional)

- Available for field installation in down-flow applications.
- Filters are not furnished and must be ordered extra. See Specifications table for filter sizes and filter rack order number.

### Hanging Bracket Kit (Optional)

- Installed kit LB-69957 (46J66) available for easy suspension of unit in horizontal applications.
- Includes four vertical supports for mounting to joists and two horizontal channels.

### Down-Flow Combustible Floor Base (Optional)

- Additive base is required for field installation with heating only, down-flow units installed on combustible floors. Not required in add-on cooling applications.
- See Specifications table and dimension drawing.

| <b>SPECIFICATIONS</b>  |                                       |  |                   |                   |                              |
|--|---------------------------------------|--|-------------------|-------------------|------------------------------|
| <b>Model Number</b>  |                                       | <b>G24M2-45</b>  | <b>G24M3-60</b>   | <b>G24M2/3-75</b> | <b>G24M4-75</b>              |
| Input — kW (Btuh)  |                                       | 13.2 (45 000)  | 17.6 (60 000)     | 22.0 (75 000)     | 22.0 (75 000)                |
| Output — kW (Btuh)   |                                       | 10.5 (36 000)  | 14.1 (48 000)     | 17.6 (60 000)     | 17.6 (60 000)                |
| Flue size connection diameter — mm (in.) round   |                                       | 76 (3)   |                   |                   | 102 (4)                      |
| Temperature rise range — °C (°F)   |                                       | 22 -39 (40 - 70)   | 17 - 34 (30 - 60) | 22 -39 (40 - 70)  | 17 - 34 (30 - 60)            |
| Maximum external static pressure — Pa (in w.g.)  |                                       | 125 (0.50)   |                   |                   |                              |
| Gas connection — iron pipe size<br>Natural or propane                                    |                                       | mm   | 13                |                   |                              |
|  |                                       | in.  | 1/2               |                   |                              |
| Blower wheel nominal<br>diameter x width   |                                       | mm   | 229 x 178         | 254 x 178         | 305 x 203                    |
|  |                                       | in.  | 9 x 7             | 10 x 7            | 12 x 8                       |
| Blower motor output — W (hp)   |                                       | 187 (1/4)  | 224 (1/3)         | 373 (1/2)         |                              |
| Nominal cooling<br>that can be added   |                                       | kW   | 3.5, 5.3 or 7.0   | 7.0, 8.8 or 10.6  | 7.0, 8.8, 10.6, 12.3 or 14.1 |
|  |                                       | Tons   | 1, 1-1/2 or 2     | 2, 2-1/2 or 3     | 2, 2-1/2, 3, 3-1/2 or 4      |
| Shipping weight — kg (lbs.) 1 package  |                                       | 59 (130)   | 61 (135)          | 64 (140)          |                              |
| Electrical characteristics   |                                       | 240 volts — 50 hertz — 1 phase (all models)  |                   |                   |                              |
| <b>Optional Accessories (Must Be Ordered Extra)</b>                                      |                                       |  |                   |                   |                              |
| Propane kit  |                                       | LB-69845L <b>(38K84)</b>   |                   |                   |                              |
| Up-Flow/Horizontal Filter and Filter Rack Kits<br>‡Number and size of filters - mm (in.) |                                       | Polyurethane Ten Pack <b>(66K64)</b><br>Aluminium Mesh Ten Pack <b>(74K68)</b><br>(1) 406 x 508 x 25 (16 x 20 x 1) |                   |                   |                              |
| ⓁDown-Flow<br>Filter Rack  | Catalog No.                           | LB-69843A <b>(32J01)</b> — 1 kg (3 lbs.)   |                   |                   |                              |
|  | Number and Size of Filters - mm (in.) | (2) 406 x 508 x 25 (16 x 20 x 1)   |                   |                   |                              |
| Down-flow Combustible Floor Base   |                                       | LB-79239A <b>(67J91)</b> — 4 kg (10 lbs.)  |                   |                   |                              |
| Hanging Bracket Kit  |                                       | LB-69957 <b>(46J66)</b> — 8 kg (15 lbs.)   |                   |                   |                              |

‡Cleanable frame type filter furnished with kit.

ⓁFilter rack for down-flow applications is not furnished and must be ordered extra. Filters are not furnished with rack and must be ordered extra.

| <b>SPECIFICATIONS</b>  |                                       |  |                              |                    |   |
|--|---------------------------------------|--|------------------------------|--------------------|---|
| <b>Model Number</b>  |                                       | <b>G24M3/4-100</b>   | <b>G24M4/5-100</b>           | <b>G24M4/5-120</b> | <b>G24M4/5-140</b>  |
| Input — kW (Btuh)  |                                       | 29.9 (102 000)   | 29.9 (102 000)               | 35.2 (120 000)     | 41.0 (140 000)  |
| Output — kW (Btuh)   |                                       | 23.9 (81 600)  | 23.9 (81 600)                | 28.1 (96 000)      | 32.8 (112 000)  |
| Flue size connection diameter- mm (in.) round  |                                       | 102 (4)  |                              |                    |   |
| Temperature rise range — °C (°F)   |                                       | 25 - 42 (45 - 75)  | 22 -39 (40 - 70)             | 25 - 42 (45 - 75)  | 31 - 47 (55 - 85)   |
| Maximum external static pressure — Pa (in.w.g.)  |                                       | 125 (0.50)   |                              |                    |   |
| Gas connection — iron pipe size<br>Natural or propane                                    |                                       | mm   | 13                           |                    |   |
|  |                                       | in.  | 1/2                          |                    |   |
| Blower wheel nominal<br>diameter x width   |                                       | mm   | 305 x 203                    | 305 x 229          |   |
|  |                                       | in.  | 12 x 8                       | 12 x 9             |   |
| Blower motor output — W (hp)   |                                       | 373 (1/2)  |                              |                    |   |
| Nominal cooling<br>that can be added   |                                       | kW   | 7.0, 8.8, 10.6, 12.3 or 14.1 | 12.3, 14.1 or 17.6 |   |
|  |                                       | Tons   | 2, 2-1/2, 3, 3-1/2 or 4      | 3-1/2, 4 or 5      |   |
| Shipping weight — kg (lbs.) 1 package  |                                       | 79 (175)   |                              |                    | 86 (190)  |
| Electrical characteristics   |                                       | 240 volts — 50 hertz — 1 phase (all models)  |                              |                    |   |
| <b>Optional Accessories (Must Be Ordered Extra)</b>                                      |                                       |  |                              |                    |   |
| Propane kit  |                                       | LB-69845K <b>(81J14)</b>   |                              |                    |   |
| Up-Flow/Horizontal Filter and Filter Rack Kits<br>‡Number and size of filters - mm (in.) |                                       | Polyurethane Ten Pack <b>(66K65)</b><br>Aluminium Mesh Ten Pack <b>(74K69)</b><br>(1) 508 x 508 x 25 (20 x 20 x 1) |                              |                    | Polyurethane<br>Ten Pack <b>(66K66)</b><br>Aluminium Mesh<br>Ten Pack <b>(74K70)</b><br>(1) 508 x 508 x 25<br>(20 x 20 x 1) |
| ⓁDown-Flow<br>Filter Rack  | Catalog No.                           | LB-69843A <b>(32J01)</b> — 1 kg (3 lbs.)   |                              |                    |   |
|  | Number and Size of Filters - mm (in.) | (2) 406 x 508 x 25 (16 x 20 x 1)   |                              |                    |   |
| Down-flow Combustible Floor Base   |                                       | LB-79239B <b>(67J92)</b> — 4 kg (10 lbs.)  |                              |                    | LB-79239C <b>(67J93)</b><br>— 5 kg (12 lbs.)  |
| Hanging Bracket Kit  |                                       | LB-69957 <b>(46J66)</b> — 8 kg (15 lbs.)   |                              |                    |   |

‡Cleanable frame type filter furnished with kit.

ⓁFilter rack for down-flow applications is not furnished and must be ordered extra. Filters are not furnished with rack and must be ordered extra.

## INSTALLATION CLEARANCES

### UP-FLOW OR DOWN-FLOW

| Vent Type          | Type "C"          | Type "B1"         |
|--------------------|-------------------|-------------------|
| Sides              | 25 mm (1 inch)    | 25 mm (1 inch)    |
| Rear               | 25 mm (1 inch)    | 25 mm (1 inch)    |
| Top                | 25 mm (1 inch)    | 25 mm (1 inch)    |
| ①Front             | ①51 mm (2 inches) | ①51 mm (2 inches) |
| Floor (up-flow)    | Combustible       | Combustible       |
| ②Floor (down-flow) | ②Combustible      | ②Combustible      |
| Flue               | 152 mm (6 inches) | 25 mm (1 inch)    |

NOTE-Air for combustion and supply air ventilation must conform to local codes  
 ①Front clearance for alcove installations is 610 mm (24 inches).

②Down-flow Applications Only — Clearance for installation on combustible floor if optional additive base is installed between the furnace and the combustible floor. Not required in add-on cooling applications if installed in accordance with local codes.

### HORIZONTAL

| Vent Type | Type "C"          | Type "B1"         |
|-----------|-------------------|-------------------|
| Sides     | 51 mm (2 inches)  | 51 mm (2 inches)  |
| Rear      | 25 mm (1 inch)    | 25 mm (1 inch)    |
| Top       | 25 mm (1 inch)    | 25 mm (1 inch)    |
| ①Front    | ①51 mm (2 inches) | ①51 mm (2 inches) |
| Floor     | 0 mm (0 inches)   | 0 mm (0 inches)   |
| Flue      | 152 mm (6 inches) | †25 mm (1 inch)   |

NOTE- air for combustion and supply air ventilation must conform to local codes  
 ①Front clearance for alcove installations is 610 mm (24 inches).

## HIGH ALTITUDE DERATE

Units must be derated when installed at an elevation of more than 610 m (2000 feet) above sea level. If unit is installed at an altitude higher than 610 m (2000 feet), the unit must be derated 4% for every 305 m (1000 feet) above sea level. Thus, at an altitude of 1210 m (4000 feet), the unit would require a derate of 16%.

NOTE - This is the only permissible manufacture's derate for these units.

## BLOWER DATA

### G24M2-45 BLOWER PERFORMANCE

| External Static Pressure |          | Air Volume at Various Blower Speeds |      |             |      |            |     |     |     |
|--------------------------|----------|-------------------------------------|------|-------------|------|------------|-----|-----|-----|
|                          |          | High                                |      | Medium-High |      | Medium-Low |     | Low |     |
| Pa                       | in. w.g. | L/s                                 | cfm  | L/s         | cfm  | L/s        | cfm | L/s | cfm |
| 0                        | 0        | 545                                 | 1150 | 510         | 1080 | 440        | 935 | 385 | 820 |
| 12                       | 0.05     | 530                                 | 1125 | 495         | 1050 | 435        | 925 | 380 | 810 |
| 25                       | 0.10     | 520                                 | 1100 | 480         | 1020 | 425        | 905 | 375 | 800 |
| 37                       | 0.15     | 500                                 | 1060 | 470         | 995  | 420        | 890 | 370 | 790 |
| 50                       | 0.20     | 485                                 | 1025 | 450         | 955  | 410        | 865 | 365 | 775 |
| 62                       | 0.25     | 465                                 | 990  | 440         | 930  | 395        | 840 | 355 | 750 |
| 75                       | 0.30     | 445                                 | 945  | 425         | 900  | 380        | 805 | 345 | 730 |
| 100                      | 0.40     | 400                                 | 850  | 380         | 800  | 345        | 730 | 310 | 660 |
| 125                      | 0.50     | 350                                 | 745  | 330         | 700  | 305        | 645 | 275 | 585 |
| 150                      | 0.60     | 290                                 | 610  | 265         | 560  | 210        | 450 | 170 | 365 |

NOTE — All air data is measured external to unit with 25mm (1 in.) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table

### G24M3-60 AND G24M2/3-75 BLOWER PERFORMANCE

| External Static Pressure |          | Air Volume at Various Blower Speeds |      |        |      |     |     |
|--------------------------|----------|-------------------------------------|------|--------|------|-----|-----|
|                          |          | High                                |      | Medium |      | Low |     |
| Pa                       | in. w.g. | L/s                                 | cfm  | L/s    | cfm  | L/s | cfm |
| 0                        | 0        | 630                                 | 1340 | 525    | 1110 | 380 | 810 |
| 12                       | 0.05     | 625                                 | 1325 | 520    | 1100 | 380 | 805 |
| 25                       | 0.10     | 615                                 | 1305 | 515    | 1090 | 375 | 800 |
| 37                       | 0.15     | 605                                 | 1285 | 505    | 1065 | 370 | 790 |
| 50                       | 0.20     | 595                                 | 1260 | 495    | 1050 | 365 | 780 |
| 62                       | 0.25     | 590                                 | 1250 | 490    | 1035 | 360 | 760 |
| 75                       | 0.30     | 585                                 | 1240 | 480    | 1020 | 350 | 745 |
| 100                      | 0.40     | 565                                 | 1200 | 465    | 985  | 335 | 710 |
| 125                      | 0.50     | 555                                 | 1175 | 455    | 960  | 325 | 685 |
| 150                      | 0.60     | 540                                 | 1140 | 440    | 930  | 310 | 655 |
| 175                      | 0.70     | 515                                 | 1095 | 415    | 880  | 290 | 615 |

NOTE — All air data is measured external to unit with 25mm (1 in.) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table

## BLOWER DATA

### G24M4-75 AND G24M3/4-100 BLOWER PERFORMANCE

| External Static Pressure |          | Air Volume at Various Blower Speeds |      |        |      |     |      |
|--------------------------|----------|-------------------------------------|------|--------|------|-----|------|
|                          |          | High                                |      | Medium |      | Low |      |
| Pa                       | in. w.g. | L/s                                 | cfm  | L/s    | cfm  | L/s | cfm  |
| 0                        | 0        | 850                                 | 1800 | 735    | 1560 | 620 | 1310 |
| 12                       | 0.05     | 830                                 | 1760 | 730    | 1550 | 615 | 1305 |
| 25                       | 0.10     | 520                                 | 1735 | 720    | 1525 | 615 | 1300 |
| 37                       | 0.15     | 800                                 | 1695 | 705    | 1495 | 610 | 1295 |
| 50                       | 0.20     | 780                                 | 1655 | 690    | 1460 | 610 | 1290 |
| 62                       | 0.25     | 765                                 | 1625 | 680    | 1440 | 600 | 1270 |
| 75                       | 0.30     | 745                                 | 1580 | 670    | 1415 | 590 | 1255 |
| 100                      | 0.40     | 710                                 | 1500 | 635    | 1350 | 570 | 1205 |
| 125                      | 0.50     | 660                                 | 1400 | 595    | 1265 | 545 | 1150 |
| 150                      | 0.60     | 620                                 | 1315 | 560    | 1190 | 510 | 1080 |
| 175                      | 0.70     | 565                                 | 1200 | 520    | 1100 | 570 | 1000 |

NOTE — All air data is measured external to unit with 25mm (1 in.) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table

### G24M4/5-100, G24M4/5-120 AND G24M4/5-140 BLOWER PERFORMANCE

| External Static Pressure |          | Air Volume at Various Blower Speeds |      |        |      |     |      |
|--------------------------|----------|-------------------------------------|------|--------|------|-----|------|
|                          |          | High                                |      | Medium |      | Low |      |
| Pa                       | in. w.g. | L/s                                 | cfm  | L/s    | cfm  | L/s | cfm  |
| 0                        | 0        | 965                                 | 2050 | 730    | 1545 | 590 | 1250 |
| 12                       | 0.05     | 960                                 | 2035 | 725    | 1540 | 590 | 1250 |
| 25                       | 0.10     | 955                                 | 2020 | 720    | 1530 | 590 | 1250 |
| 37                       | 0.15     | 945                                 | 2000 | 715    | 1520 | 585 | 1245 |
| 50                       | 0.20     | 940                                 | 1980 | 710    | 1500 | 585 | 1245 |
| 62                       | 0.25     | 925                                 | 1955 | 700    | 1485 | 585 | 1245 |
| 75                       | 0.30     | 910                                 | 1930 | 695    | 1475 | 585 | 1240 |
| 100                      | 0.40     | 895                                 | 1895 | 680    | 1445 | 580 | 1230 |
| 125                      | 0.50     | 870                                 | 1845 | 660    | 1400 | 560 | 1190 |
| 150                      | 0.60     | 840                                 | 1780 | 635    | 1345 | 535 | 1135 |
| 175                      | 0.70     | 800                                 | 1700 | 600    | 1270 | 500 | 1060 |

NOTE — All air data is measured external to unit with 25mm (1 in.) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table

## FILTER AIR RESISTANCE

### POLYURETHANE

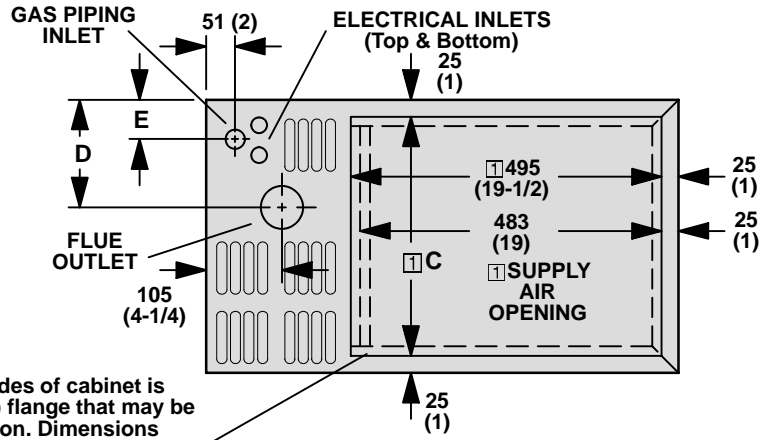
| L/s (cfm)  | Pa (in. w.g.) |
|------------|---------------|
| 0 (0)      | 0 (0.00)      |
| 95 (200)   | 2 (0.01)      |
| 185 (400)  | 7 (0.03)      |
| 280 (600)  | 10 (0.04)     |
| 375 (800)  | 15 (0.06)     |
| 470 (1000) | 22 (0.09)     |
| 560 (1200) | 30 (0.12)     |
| 655 (1400) | 37 (0.15)     |
| 750 (1600) | 47 (0.19)     |
| 845 (1800) | 57 (0.23)     |
| 935 (2000) | 67 (0.27)     |

### ALUMINUM MESH

| L/s (cfm)  | Pa (in. w.g.) |
|------------|---------------|
| 0 (0)      | 0 (0.00)      |
| 95 (200)   | 0 (0.00)      |
| 185 (400)  | 2 (0.01)      |
| 280 (600)  | 7 (0.03)      |
| 375 (800)  | 12 (0.05)     |
| 470 (1000) | 16 (0.07)     |
| 560 (1200) | 21 (0.09)     |
| 655 (1400) | 26 (0.11)     |
| 750 (1600) | 31 (0.13)     |
| 845 (1800) | 36 (0.15)     |
| 935 (2000) | 41 (0.17)     |

**DIMENSIONS - MM (INCHES)**

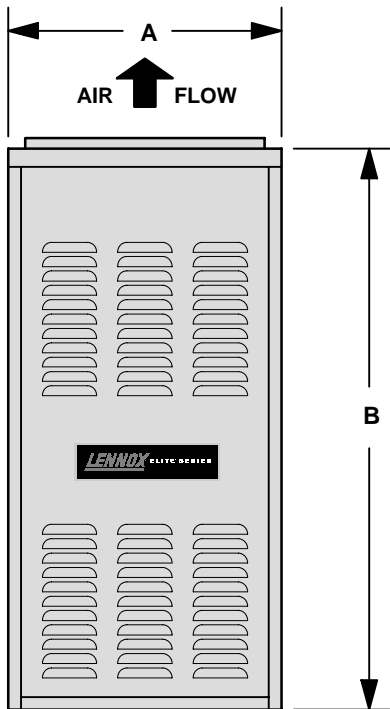
**UP-FLOW POSITION SHOWN**



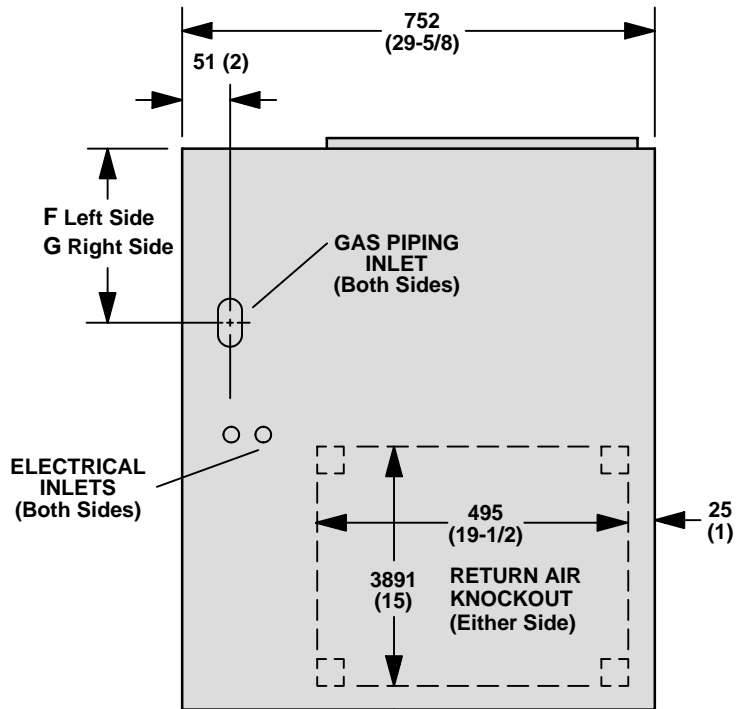
**TOP VIEW**

NOTE- Supply air opening at rear and sides of cabinet is equipped with a 19 mm (3/4 inch) flange that may be bent out 90° for plenum connection. Dimensions shown are after flange is bent out,

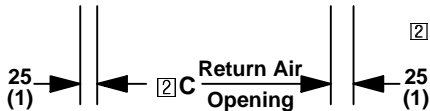
Flange at front of supply air opening may be bent out for a total opening dimension (front to rear) of either 495 mm (19-1/2 inches) or 483 mm (19 inches).



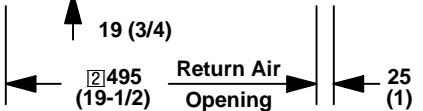
**FRONT VIEW**



**SIDE VIEW**

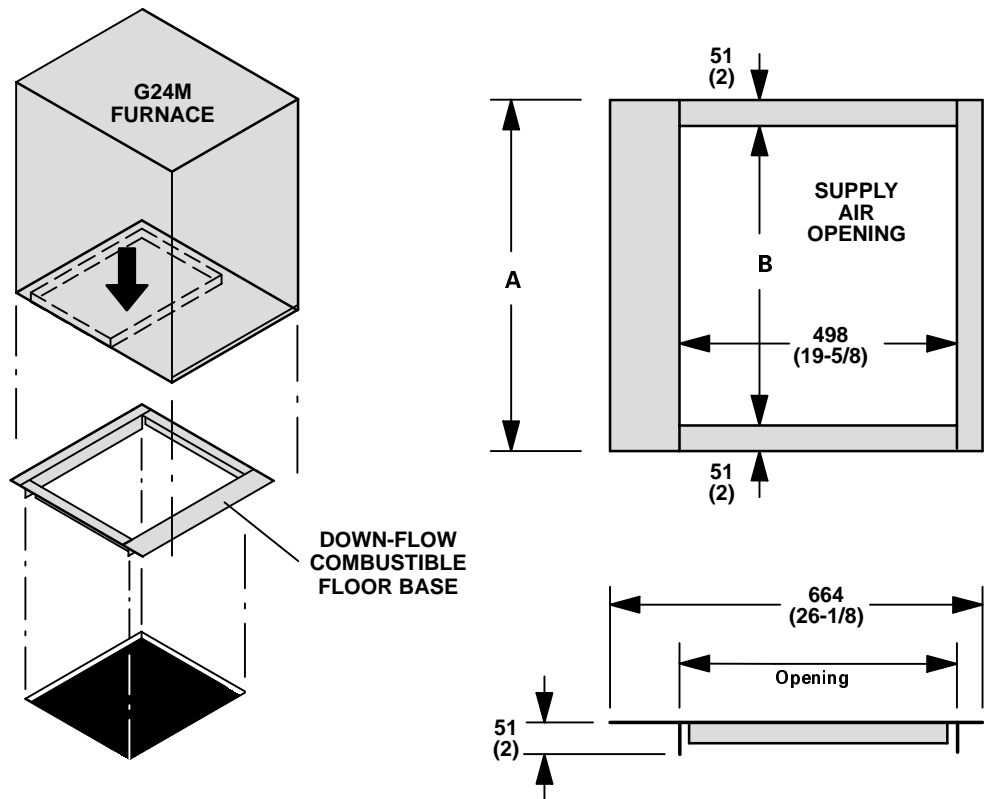


NOTE - Return air opening is equipped with a 19 mm (3/4 inch) flange that may be bent out 90° for plenum connection. Dimensions shown are after flange is bent out,



| Model Number                                   |     | A      | B      | C      | D     | E      | F     | G      |
|--|-----|--------|--------|--------|-------|--------|-------|--------|
| G24M2-45<br>G24M3-60<br>G24M2/3-75<br>G24M4-75 | mm  | 432    | 921    | 381    | 171   | 62     | 114   | 254    |
|  | in. | 17     | 36-1/4 | 15     | 6-3/4 | 2-7/16 | 6-1/2 | 12     |
| G24M3/4-100<br>G24M4/5-100<br>G24M4/5-120      | mm  | 521    | 991    | 470    | 213   | 108    | 203   | 343    |
|  | in. | 20-1/2 | 39     | 18-1/2 | 8-3/8 | 4-1/4  | 8     | 13-1/2 |
| G24M4/5-140                                    | mm  | 591    | 991    | 540    | 248   | 108    | 203   | 343    |
|  | in. | 23-1/4 | 39     | 21-1/4 | 9-3/4 | 4-1/4  | 8     | 13-1/2 |

**OPTIONAL ACCESSORY DIMENSIONS - MM (INCHES)**



| Furnace Model Number                           | A   |        | B   |        |
|--|-----|--------|-----|--------|
|  | mm  | in.    | mm  | in.    |
| G24M2-45<br>G24M3-60<br>G24M2/3-75<br>G24M4-75 | 486 | 19-1/8 | 384 | 15-1/8 |
| G24M3/4-100<br>G24M4/5-100<br>G24M4/5-120      | 572 | 22-1/2 | 470 | 18-1/2 |
| G24M4/5-140                                    | 641 | 25-1/4 | 540 | 21-1/4 |