

# REZNOR®

## Model DFC

Direct-Fired, Vertical/Horizontal,  
Indoor/Outdoor, Packaged,  
Makeup Air Heating and Air  
Conditioning System



ANSI Z83.18a-2001  
ANSI Z83.4B-2002



CSA 3.7B-2002



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**IMPORTANT:** Specifications are subject to change without notice. This guide is intended to provide specifications and technical information only.

This guide is not intended to be an instruction manual. When installing HVAC Equipment, you must check and conform to all local and national building codes. Improper installation of HVAC Equipment could be dangerous. Consult manufacturer's installation manual for instructions and important warnings.

*In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.*

## Model DFC

### INDOOR/OUTDOOR HORIZONTAL AND VERTICAL DIRECT-FIRED MAKEUP AIR SYSTEM



#### DESCRIPTION

The Reznor Model DFC Series units are direct-fired/makeup and space heaters designed for either indoor or outdoor installation. Model DFCH is horizontally arranged. Model DFCV is a vertical cabinet. Units can be configured for floor mount, outdoor pad mount, rooftop or suspended installation. Model DFC systems are available to operate on either natural gas or propane.

Maximum heating capacity is 12,830 MBH. Maximum air handling capacity is 90,000 CFM. The DFC Series provides discharge air at a maximum temperature rise of 120°F.

The gas manifold has stainless steel mixing plates and offers a 30:1 turndown ratio. There is also a solid state flame monitoring system and a burner observation port.

The AMCA-rated forward curved DWDI centrifugal blower (Class I or Class II) has a polished steel shaft with rust inhibitor. Backward inclined and air foil fans are also available. Heavy duty industrial bearings are standard. Adjustable V-belt drives are used on motors through 5 HP. Fixed drives are used on motors 7.5 HP and larger. Several options are available for internal and external vibration isolation including 1" or 2" deflection spring hangers and rubber-in-shear isolation.

The cabinet is constructed of 18, 16 or 14 gauge Galvaneal steel casing with rust-resistant gray enamel paint finish on a welded structural or formed channel base frame. The 1" or 2" thick, high density insulation is glued and pinned to the inside cabinet walls. Cabinets can be single wall, solid double wall (for cleaning) or with a perforated inner wall liner (for sound attenuation). Outdoor units larger than 218 have a sloped roof. Service platform is available for easy access to controls and gas train.

Vertical units can be mounted on the floor, suspended or mounted on a 3' or 5' stand. Service platforms are also available for vertical or horizontal units for a convenient place to stand when working in the controls section. Service platform available for filter cabinet access for horizontal units.

Model DFCH (horizontal configuration) can be arranged for vertical up, vertical down or horizontal supply air discharge. Model DFCV (vertical configuration) can also be arranged for vertical up, vertical down or horizontal supply air discharge.

Standard configuration is for 100% outside air. An optional return air plenum (return air bypasses burner) is available for recirculating up to 80% return air (available in U.S. only). Inlet air weather hoods have an expanded metal screen with 2" filters available. Motorized two-position inlet and discharge dampers have a two-position spring return and end switch.

Modules available for filter cabinets, evaporative cooling, return air plenum, DX or chilled water cooling coils; as well as steam, hot water or glycol heating coils.

Electrical controls include electronic flame safeguard relay manual reset; high and low airflow pressure switches; motor starter with overload protection; control panel service switch; and terminal connections for exhaust interlock.

The discharge air temperature control can be used with or without a room override connected to room thermostat. Space temperature control can also be selected. Other temperature control options include night setback, freeze protection and inlet air control which shuts down the burner when outside air exceeds temperature setting. Standard features include flame rod ignition system with optional dual flame rods and UV flame supervision.

*NEMA4 control panel available unit mounted or remote enclosure. Explosion resistant panels also available.*

Units provided with ETL (for installation in the United States) or ETLC (for installation in Canada) rating plate. Manifolds are available to meet ANSI, FM (Factory Mutual), IRI or FM/IRI standards.

All units are factory wired, piped and test fired.

## STANDARD FEATURES

**REZNOR®**

- ETL (United States) or ETLC (Canada) rating plate
- Class I Blower (Sizes 127 - 218); Class II Blower (Sizes 222 - 236)
- Natural gas or propane operation
- 208/3/60 Supply voltage
- Cabinet
  - Welded structural or formed channel base frame
  - Hinged access doors
  - Conveniently located lifting lugs
  - Heavy steel casing (18 gauge) with rust resistant gray enamel finish
  - One-inch thick, 1.5 lb. density, neoprene-coated fiberglass insulation pinned and glued to inside cabinet walls
  - Sloped roof on outdoor units on sizes 218 and larger
- Flame rod ignition system
- Left hand or right hand side controls
- 100% outside makeup air with constant supply volume
- Blower/Motor
  - AMCA-rated forward curve DWDI centrifugal blower
  - Polished steel shaft with rust inhibitor
  - Maximum allowable operating speed set to 75% of first critical speed
  - ODP motor, 1800 RPM, T frame, 1.15 service factor mounted on adjustable base
  - Drives designed for 150% of motor brake horsepower
  - Adjustable V-belt drives on 5 hp motors
  - Fixed drives on motors 7.5 hp and larger

OPTIONAL FEATURES -  
Factory Installed

- Class II Blower
- Gas manifold to meet ANSI, FM, IRI or FM/IRI Standards
- Manifold arrangements from 700 to 12,830 MBH
- Gas pressure gauge on manifold
- 230/3/60, 460/3/60 or 575/3/60 Supply voltage
- Ignition system
  - Dual flame rod
  - UV flame supervision
- Remote reset button for flame safeguard system
- Gas pressure safety switch
  - High gas pressure safety switch (manual reset)
  - Low gas pressure safety switch (manual reset)
  - Single body high and low gas pressure safety switch (manual reset)
- Proof of closure valve
- High gas pressure regulator
- Purge relays
  - Post purge timer and relay
  - Pre-purge timer and relay
- Cabinet
  - Gray enamel finish on 16 or 14 gauge Galvaneal
  - 1" thick high density (2 lb.) or 2" thick insulation
  - Internal liners - 22 gauge solid lining (for cleaning) or perforated lining (for sound attenuation)
  - Control panel weather housing for outdoor applications
  - Horizontal or vertical discharge air options
  - Special coatings
- Three foot or five foot tall mounting stand
- Service platform for controls section (horizontal or vertical units) and filter cabinet (horizontal only) access
- Vibration isolation
  - 1" or 2" deflection spring vibration internal isolation
  - 1" or 2" deflection external spring hangers
  - Motor/blower rubber-in-shear isolation
  - External spring isolation under unit channel base
  - Seismic vibration isolation
- Supply air discharge
  - Horizontal, vertical up or vertical down configuration (all models)
  - Two position motorized discharge air shutoff dampers with spring return
  - Low leak airfoil dampers with two position motor and spring return
- Return air plenum capable of recirculating up to 80% return air (return air bypasses burner) - not available in Canada
- Motorized Inlet and discharge dampers
- Motors
  - TEFC
  - Premium efficiency ODP
  - EPACT-compliant ODP
- Wide variety of control options

### OPTIONAL FEATURES - Field Installed

- Extended lube lines
- Filter cabinet
  - V-bank filter section
  - Side access
  - 2" permanent or pleated filter
  - Access doors completely sealed with gaskets
- Evaporative cooling module
  - with 12" Celdek® media
  - with 12" Glasdek® media
  - with 2" aluminum mesh washable prefilters
  - Automatic fill and drain kit
  - Outside air thermostat for fill and drain
- Discharge air options
  - Three faced trapezoidal cowl with discharge louvers
  - Cowl with double deflection louvers
  - 4 sided 360 degree louvered discharge plenum (DFCH bottom discharge only)
- 16" or 26" roof curb (DFCH only)
- Wide variety of Temperature controls
- Coil Cabinets
  - Cabinets for DX or chilled water cooling
  - Cabinets for steam, hot water or glycol heating
- Louvered inlet for maximum velocity of 500 fpm to minimize potential precipitation entering unit

### TECHNICAL DATA TABLE

|                          |                    | Size | 127    | 130    | 133    | 136    | 218    | 222    | 227    | 230     | 233     | 236     |
|--------------------------|--------------------|------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Maximum Heating Capacity | MBH                |      | 4,000  | 5,000  | 5,700  | 7,000  | 2,850  | 4,000  | 7,850  | 10,000  | 11,500  | 12,830  |
|                          | kW                 |      | 1,172  | 1,466  | 1,671  | 2,052  | 835    | 1,172  | 2,301  | 2,931   | 3,371   | 3,760   |
| Air Volume Range         | CFM                | Low  | 20,000 | 25,000 | 28,000 | 30,000 | 10,000 | 22,000 | 30,000 | 45,000  | 60,000  | 70,000  |
|                          |                    | High | 28,000 | 35,000 | 40,000 | 50,000 | 20,000 | 28,000 | 55,000 | 70,000  | 80,000  | 90,000  |
|                          | M <sup>3</sup> /hr | Low  | 33,979 | 42,474 | 47,571 | 50,968 | 16,989 | 37,377 | 50,968 | 76,453  | 101,937 | 118,926 |
|                          |                    | High | 47,571 | 59,463 | 67,958 | 84,947 | 33,979 | 47,571 | 93,442 | 118,926 | 135,916 | 152,905 |
| Maximum Temperature Rise | °F                 |      | 120    |        |        |        |        |        |        |         |         |         |
|                          | °C                 |      | 67     |        |        |        |        |        |        |         |         |         |
| Net Weight               | lbs.               |      | 2,345  | 2,415  | 3,105  | 3,510  | 2,225  | 3,080  | 4,335  | 4,750   | 5,980   | 6,100   |
|                          | Kg                 |      | 1,064  | 1,095  | 1,408  | 1,592  | 1,009  | 1,397  | 1,966  | 2,155   | 2,713   | 2,767   |

### MODEL SIZE SELECTION

How to Select a Model and Size

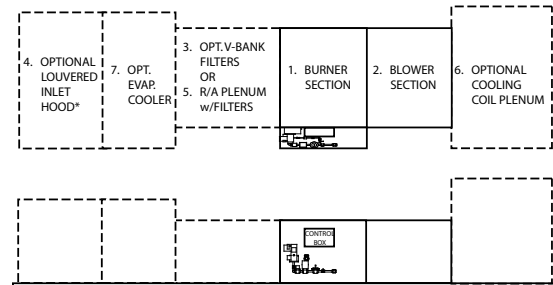
Model DFC is available in either vertical or horizontal configuration. The fourth letter in the Model number (DFCH, DFCV) indicates whether the unit is horizontal or vertical. The size of the unit is specified by size and quantity of blowers as shown below.

| Model       | Description                                                        |
|-------------|--------------------------------------------------------------------|
| <b>DFCV</b> | Direct Fired - Vertical Configuration - Specify Upflow or Downflow |
| <b>DFCH</b> | Direct Fired - Horizontal Configuration                            |
|             |                                                                    |
| Size        | Description                                                        |
| <b>127</b>  | Single Blower - 27"x27"                                            |
| <b>130</b>  | Single Blower - 30"x30"                                            |
| <b>133</b>  | Single Blower - 33"x33"                                            |
| <b>136</b>  | Single Blower - 36"x36"                                            |
| <b>218</b>  | Dual Blowers - 18"x18" each                                        |
| <b>222</b>  | Dual Blowers - 22"x22" each                                        |
| <b>227</b>  | Dual Blowers - 27"x27" each                                        |
| <b>230</b>  | Dual Blowers - 30"x30" each                                        |
| <b>233</b>  | Dual Blowers - 33"x33" each                                        |
| <b>236</b>  | Dual Blowers - 36"x36" each                                        |

Model DFCH consists of a burner cabinet and a blower cabinet. Additional modules are available such as a filter section, return air plenum cabinet and other options. The list below indicates all the available modules. The graphic to the right indicates how the different modules are configured.

**Note:** Larger units are shipped in sections for field assembly.

1. BURNER
2. BLOWER
3. V-BANK FILTER SECTION
4. LOUVER INLET HOOD\*
5. RETURN AIR PLENUM CABINET (INCLUDES FILTERS)
6. COIL CABINET WITH DOWN OR UP DISCHARGE PLENUM
7. EVAPORATIVE COOLING CABINET



\* Louvered Inlet Hood may be ordered with filters.

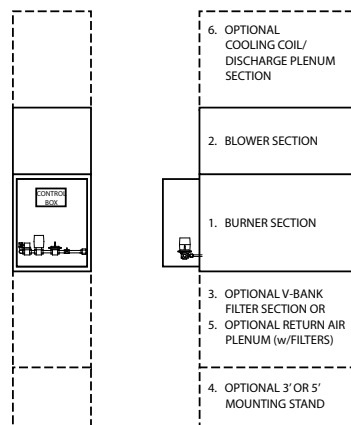
## DFCV Vertical Upflow Units

Model DFCV consists of a burner cabinet and a blower cabinet. Additional modules are available such as a filter section, return air plenum cabinet, vertical stand and other options. The list below indicates all the available modules. The graphic to the right indicates how the different modules are configured.

**Note:** Larger units are shipped in sections for field assembly.

Units are inverted as shown for up airflow configuration. To order Model DFCV for down airflow, see option codes on next page.

1. BURNER
2. BLOWER
3. V-BANK FILTER SECTION
4. MOUNTING STAND (3' OR 5')
5. RETURN AIR PLENUM CABINET (INCLUDES FILTERS)
6. COIL CABINET



### Control Side and Air Arrangement Data

As previously mentioned, Model DFC can be arranged for horizontal air flow or vertical air flow (up or down) configuration. There are a variety of air discharge arrangements for each configuration (up, down or horizontal air flow). Units can also be configured for left-hand or right-hand controls.

The following table will show you each available configuration and arrangement and the option codes representing each.

#### Control Side

**Option AJ1** Left side controls (when facing air stream)

**Option AJ2** Right side controls (when facing air stream)

#### Discharge Air Arrangement

**Option AQ1** Bottom Discharge (Model DFCH)

**Option AQ2** Horizontal Discharge (Model DFCH)

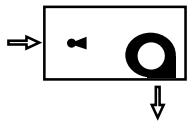
**Option AQ13** Top Discharge

**Option AQ28** Bottom Discharge (Model DFCV - Down Airflow)

**Option AQ30** Horizontal Discharge (Model DFCV - Down Airflow)

**AQ32 Horizontal** Discharge (Model DFCV Up Airflow)

#### Example Configuration Selection



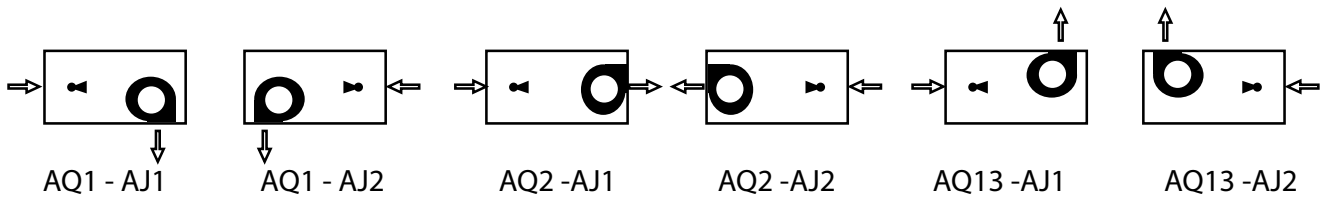
Air flow directions and control side illustrations as seen when facing the unit from the control side

DFCH (Horizontal Configuration)

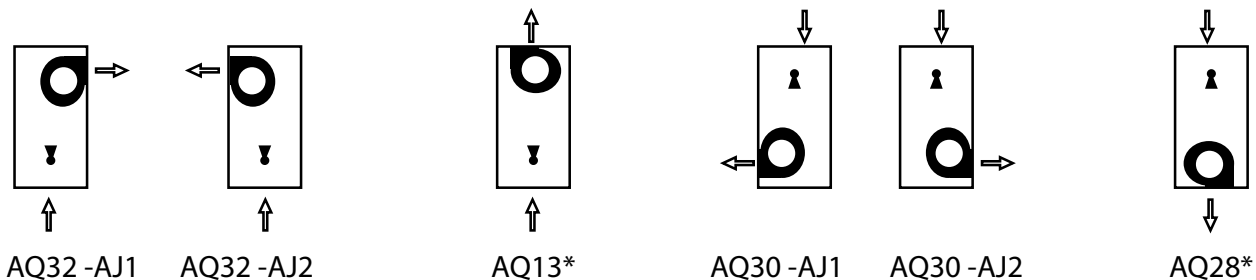
AQ1 Option - bottom discharge

AJ1 Option - Left side controls when facing air flow.

#### DFCH Configurations



#### DFCV Configurations



\*AJ Option not required.

### How To

- Determine whether the unit will be for heating and cooling, humidifying, dehumidifying, or any combination of the above.
- Determine the maximum air volume requirement. This is generally 10% greater than the maximum air volume of the exhaust system for the space. This will allow the room to be positively pressurized. However, in some makeup systems this may be reversed to keep the space negatively pressurized, keeping odors, toxins, etc. confined to the conditioned space.
- Once this is known, refer to the DFC Series Performance Specifications to choose the model that can deliver this amount.
- The corresponding Brake Horse Power (BHP) can then be taken from the DFC Performance Specification Chart, given the external static pressure (ESP" WC). Note: Add the necessary accessory pressure drop(s), to the ESP. Given the blower HP and line voltage, determine the Running Motor Amperage, Inrush Motor Amperage and Full Load Amps (FLA).
- Knowing the Unit Model Number and MBH capacity, the corresponding gas connection size can be taken from the DFC Series Specification Table.
- Given the entering and leaving dry bulb temperatures or temperature rise, the equation below can also be used to calculate the required MBH capacity.
  - MBH capacity =  $(CFM \times C \times (LAT-EAT))/1000$
  - MBH capacity: BTUH/1000 (British Thermal Units per hour)
  - CFM: Cubic Feet per Minute of air.
  - C: Gas constant of 1.188 based on an air density at 75°F
  - EAT: Entering Air dry bulb Temperature ( °F)
  - LAT: Leaving Air dry bulb Temperature (°F)
- Specify the unit configuration by referring to the Unit Configuration drawing.

### Example:

A room is exhausting 35,000 CFM. The desired room temperature is 70°F. The winter design condition for the area is -10°F. The unit chosen is to be an outdoor direct-fired unit with supply air downward discharge. The ESP is 0.25 in. w.c. The line voltage to the unit is 460/3/60. Gas connection is on the left-hand side.

### Determine:

1. The supply air capacity required.
2. Which unit is capable of delivering the required supply air volume, while not exceeding a BHP of 22.0? Note: Since it is an outdoor unit, the inlet louver and filter section air pressure drop must be taken in to consideration.
3. Running Motor Amperage.
4. The MBH capacity and corresponding gas connection size required.
5. Unit configuration.

### Selection:

1. Since the exhaust air volume is 35,000 CFM, the supply air capacity should be the same if no pressurization requirements were specified. Therefore the supply air capacity is 35,000 CFM.
2. Referring to the DFC performance Specification Table, the DFC 130, DFC 133, DFC 136 and the DFC 227 are all capable of delivering the required 35,000 CFM of supply air. The unit must have a maximum of 22.0 BHP when the static pressure of the unit and ESP are added together and applied to the table.
  - a. ESP = 0.25 in. w.c. (Given)
  - b. Inlet louver = 0.2 in. w.c. (See Static Pressure Drop Tables)
  - c. V-Bank filter section = 0.6 in. w.c. (See Static Pressure Drop Tables)
  - d.  $0.25 + 0.2 + 0.6 = TESP = 1.05 \text{ in. w.c.}$
  - e. We will use 1.0 in. w.c. as it appears on the selection table knowing the BHP will be a slight bit more than listed.
3. Using the selection chart we can identify the BHP as follows;
  - a. DFC 130 = 25 BHP
  - b. DFC 133 = 20.92 BHP
  - c. DFC 136 = 19.18 BHP
  - d. DFC 227 = 15.98 BHP
4. The units that are below the 22.0 BHP that can be used are the DFC 133, DFC 136 and DFC 227. A 25 Hp motor will work well on all of the selections. The smallest unit the DFC 133 is the most economical solution.
5. The Running Motor Amperage for the 25 Hp motor at 460/3/60 is 33.75 amps.
6. The MBH input required for an EAT of -10°F and a LAT of 70°F (80°F rise) is 3,326 MBH
  - a.  $MBH = (CFM \times 1.188(LAT-EAT))/1000$
  - b.  $MBH = (35,000 \text{ CFM} \times 1.188 (70 - (-10)))/1000 = 3,326 \text{ MBH}$
7. The corresponding gas connection size from the selection chart is 2 ½ in.
8. The unit configuration is AQ1-AJ1 for a horizontal left-hand unit with bottom supply air discharge.

### Selection for 80/20 Units (Available in US only)

The DFC series unit can be used as a combination makeup air and heating unit. A minimum of 20% fresh air must be provided at all times and the balance (80%) is a combination of fresh and return air. With the dampers fixed for 80% recirculation, the DFC series unit functions as a space heater.

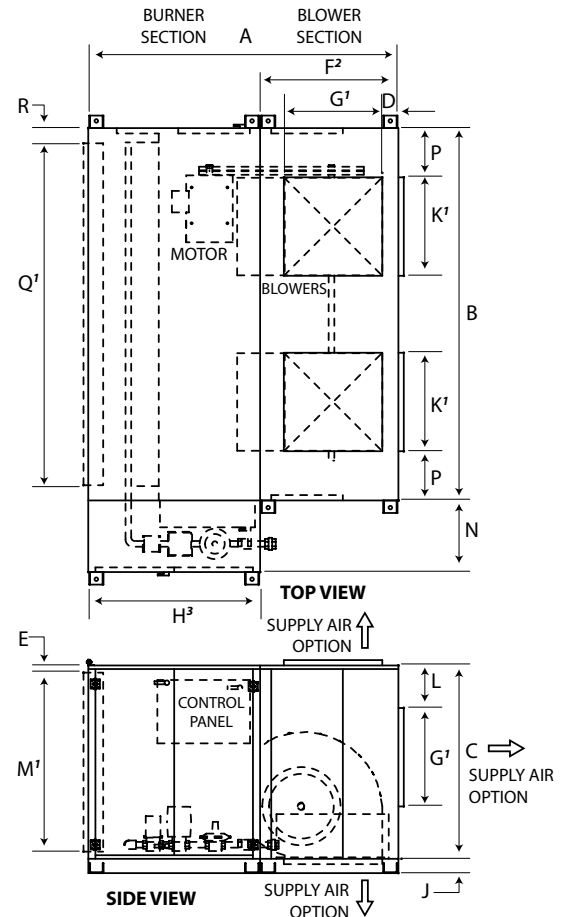
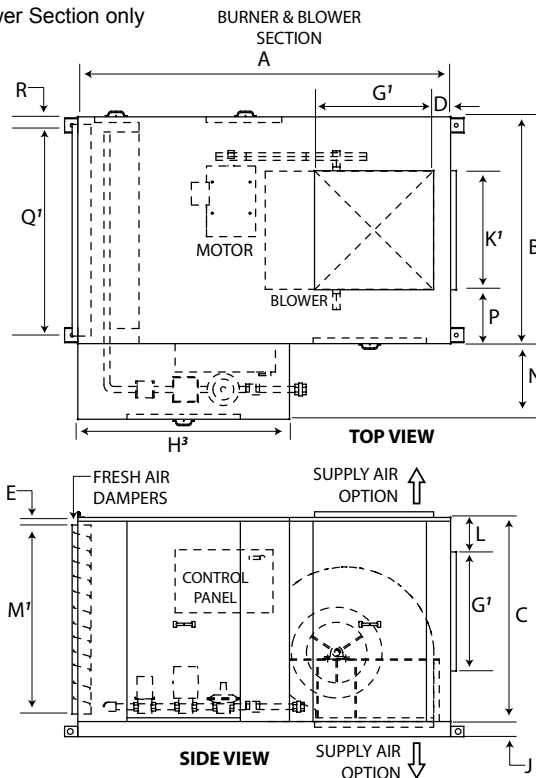
### DFCH Basic Horizontal Units

Burner Section and Blower Section only

±1/8" (3mm)

The illustration to the right shows Model DFCH with a single blower. The illustration to the far right shows Model DFCH with dual blowers.

Dimensions below are shown in inches and (millimeters).



| SIZE               | A       | B       | C       | D     | E    | F       | G       | H       | J     | K       | L      | M       | N     | P      | Q       | R    |
|--------------------|---------|---------|---------|-------|------|---------|---------|---------|-------|---------|--------|---------|-------|--------|---------|------|
| 127                | 104 5/8 | 66      | 60      | 5     | 2    | N/A     | 34 1/2  | 58      | 4     | 34 1/2  | 10 3/8 | 56      | 20    | 15 3/4 | 62      | 2    |
| 130                | 104 5/8 | 66      | 60      | 5     | 2    | N/A     | 37      | 58      | 4     | 37      | 6 3/8  | 56      | 20    | 14 1/2 | 62      | 2    |
| 133                | 116 5/8 | 74      | 66      | 5     | 2    | N/A     | 43 3/16 | 58      | 4     | 40      | 8 1/8  | 62      | 20    | 17     | 70      | 2    |
| 136 <sup>2</sup>   | 116 5/8 | 88      | 66      | 5     | 2    | N/A     | 43 3/16 | 58      | 4     | 43      | 8 1/8  | 62      | 20    | 22 1/2 | 84      | 2    |
| 218 <sup>2,4</sup> | 84 5/8  | 87      | 40      | 5     | 2    | N/A     | 19 1/8  | 58      | 4     | 22 1/8  | 8      | 36      | 20    | 12 1/2 | 83      | 2    |
| 222 <sup>2,4</sup> | 86 5/8  | 104     | 54      | 5     | 2    | 38 5/8  | 27 1/2  | 58      | 4     | 27 1/2  | 11 7/8 | 50      | 20    | 13 3/4 | 100     | 2    |
| 227 <sup>2,4</sup> | 116 5/8 | 134     | 60      | 5     | 2    | 58 5/8  | 34 1/2  | 58      | 6     | 34 1/2  | 7 7/8  | 56      | 20    | 19     | 130     | 2    |
| 230 <sup>2,4</sup> | 116 5/8 | 134     | 60      | 5     | 2    | 58 5/8  | 37      | 58      | 6     | 37      | 3 7/8  | 56      | 20    | 15     | 130     | 2    |
| 233 <sup>2,4</sup> | 124 5/8 | 156     | 66      | 5     | 2    | 66 5/8  | 43 3/16 | 58      | 6     | 40      | 5 5/8  | 62      | 20    | 21 5/8 | 152     | 2    |
| 236 <sup>2,4</sup> | 124 5/8 | 156     | 66      | 5     | 2    | 66 5/8  | 43 3/16 | 58      | 6     | 43      | 5 5/8  | 62      | 20    | 17     | 152     | 2    |
| SIZE               | A       | B       | C       | D     | E    | F       | G       | H       | J     | K       | L      | M       | N     | P      | Q       | R    |
| 127                | (2,657) | (1,676) | (1,524) | (127) | (51) | N/A     | (876)   | (1,473) | (102) | (876)   | (264)  | (1,422) | (508) | (400)  | (1,575) | (51) |
| 130                | (2,657) | (1,676) | (1,524) | (127) | (51) | N/A     | (940)   | (1,473) | (102) | (940)   | (162)  | (1,422) | (508) | (368)  | (1,575) | (51) |
| 133                | (2,962) | (1,880) | (1,676) | (127) | (51) | N/A     | (1,097) | (1,473) | (102) | (1,016) | (206)  | (1,575) | (508) | (432)  | (1,778) | (51) |
| 136 <sup>2</sup>   | (2,962) | (2,235) | (1,676) | (127) | (51) | N/A     | (1,097) | (1,473) | (102) | (1,092) | (206)  | (1,575) | (508) | (572)  | (2,134) | (51) |
| 218 <sup>2,4</sup> | (2,149) | (2,210) | (1,016) | (127) | (51) | N/A     | (486)   | (1,473) | (102) | (562)   | (203)  | (914)   | (508) | (318)  | (2,108) | (51) |
| 222 <sup>2,4</sup> | (2,200) | (2,642) | (1,372) | (127) | (51) | (981)   | (699)   | (1,473) | (102) | (699)   | (302)  | (1,270) | (508) | (349)  | (2,540) | (51) |
| 227 <sup>2,4</sup> | (2,962) | (3,404) | (1,524) | (127) | (51) | (1,489) | (876)   | (1,473) | (152) | (876)   | (200)  | (1,422) | (508) | (483)  | (3,302) | (51) |
| 230 <sup>2,4</sup> | (2,962) | (3,404) | (1,524) | (127) | (51) | (1,489) | (940)   | (1,473) | (152) | (940)   | (98)   | (1,422) | (508) | (381)  | (3,302) | (51) |
| 233 <sup>2,4</sup> | (3,165) | (3,962) | (1,676) | (127) | (51) | (1,692) | (1,097) | (1,473) | (152) | (1,016) | (143)  | (1,575) | (508) | (549)  | (3,861) | (51) |
| 236 <sup>2,4</sup> | (3,165) | (3,962) | (1,676) | (127) | (51) | (1,692) | (1,097) | (1,473) | (152) | (1,092) | (143)  | (1,575) | (508) | (432)  | (3,861) | (51) |

<sup>1</sup> 1-1/2" inlet and discharge flanges

<sup>2</sup> DFCH222 and larger burner and blower sections WILL be split for shipping. DFCH136 MAY be split for shipping.

<sup>3</sup> Service panel access must not be restricted. A minimum clearance of 36" (915mm) is recommended.

<sup>4</sup> On outdoor dual blower units (size 218 and larger) the roof slopes away from the weatherhousing which covers the control section.

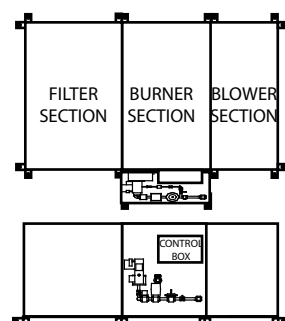
### V-Bank Filter Section

±1/8" (3mm)

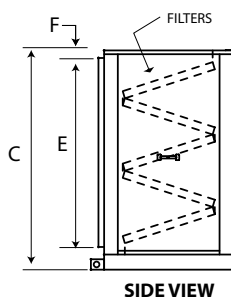
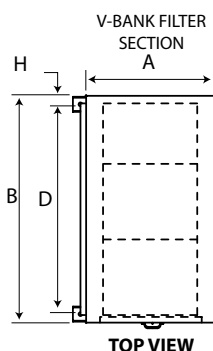
Displayed on the following pages are accessory modules for Model DFCH.

The illustration on the left will show the relative location and size of the module. For example, this page shows the Filter Section on the up stream side of the burner and blower sections.

Dimensional drawings and a dimension table in inches (mm) are also shown.



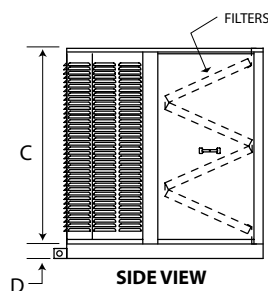
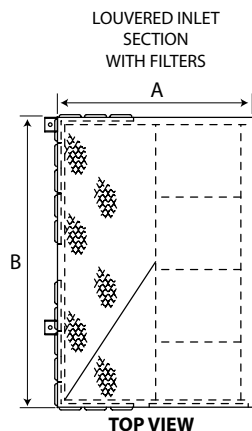
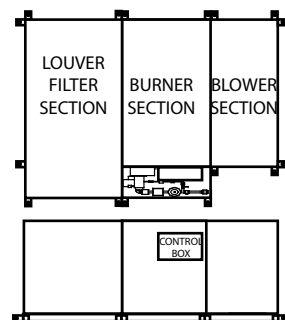
## DIMENSIONS (cont'd)



| SIZE | A       | B       | C       | D       | E       | F    |
|------|---------|---------|---------|---------|---------|------|
| 127  | 34      | 66      | 60      | 62      | 56      | 2    |
| 130  | 50      | 66      | 60      | 62      | 56      | 2    |
| 133  | 50      | 74      | 66      | 70      | 62      | 2    |
| 136  | 50      | 88      | 66      | 84      | 62      | 2    |
| 218  | 34      | 87      | 40      | 83      | 36      | 2    |
| 222  | 34      | 104     | 54      | 100     | 50      | 2    |
| 227  | 34      | 134     | 60      | 130     | 56      | 2    |
| 230  | 50      | 134     | 60      | 130     | 56      | 2    |
| 233  | 50      | 156     | 66      | 152     | 62      | 2    |
| 236  | 50      | 156     | 66      | 152     | 62      | 2    |
| SIZE | A       | B       | C       | D       | E       | F    |
| 127  | (864)   | (1,676) | (1,524) | (1,575) | (1,422) | (51) |
| 130  | (1,270) | (1,676) | (1,524) | (1,575) | (1,422) | (51) |
| 133  | (1,270) | (1,880) | (1,676) | (1,778) | (1,575) | (51) |
| 136  | (1,270) | (2,235) | (1,676) | (2,134) | (1,575) | (51) |
| 218  | (864)   | (2,210) | (1,016) | (2,108) | (914)   | (51) |
| 222  | (864)   | (2,642) | (1,372) | (2,540) | (1,270) | (51) |
| 227  | (864)   | (3,404) | (1,524) | (3,302) | (1,422) | (51) |
| 230  | (1,270) | (3,404) | (1,524) | (3,302) | (1,422) | (51) |
| 233  | (1,270) | (3,962) | (1,676) | (3,861) | (1,575) | (51) |
| 236  | (1,270) | (3,962) | (1,676) | (3,861) | (1,575) | (51) |

### Louvered Inlet Hood with Filter Section

±1/8" (3mm)

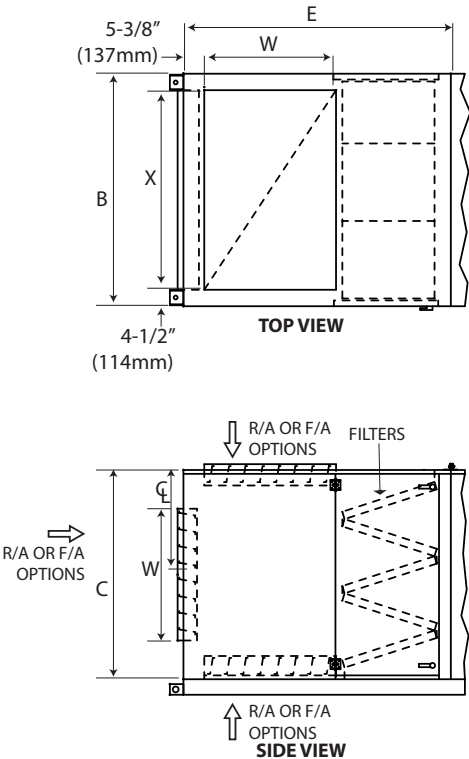
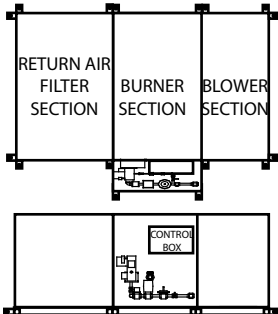


| SIZE | A       | B       | C       | D     |
|------|---------|---------|---------|-------|
| 127  | 54      | 86      | 60      | 4     |
| 130  | 68      | 86      | 60      | 4     |
| 133  | 68      | 94      | 66      | 4     |
| 136  | 83      | 108     | 66      | 4     |
| 218  | 34      | 107     | 40      | 4     |
| 222  | 34      | 124     | 54      | 4     |
| 227  | 34      | 154     | 60      | 6     |
| 230  | 50      | 154     | 60      | 6     |
| 233  | 50      | 176     | 66      | 6     |
| 236  | 50      | 176     | 66      | 6     |
| SIZE | A       | B       | C       | D     |
| 127  | (1,372) | (2,184) | (1,524) | (102) |
| 130  | (1,727) | (2,184) | (1,524) | (102) |
| 133  | (1,727) | (2,388) | (1,676) | (102) |
| 136  | (2,108) | (2,743) | (1,676) | (102) |
| 218  | (864)   | (2,718) | (1,016) | (102) |
| 222  | (864)   | (3,150) | (1,372) | (102) |
| 227  | (864)   | (3,912) | (1,524) | (152) |
| 230  | (1,270) | (3,912) | (1,524) | (152) |
| 233  | (1,270) | (4,470) | (1,676) | (152) |
| 236  | (1,270) | (4,470) | (1,676) | (152) |

DFCH ACCESSORIES (cont'd)

Return Air Plenum Section

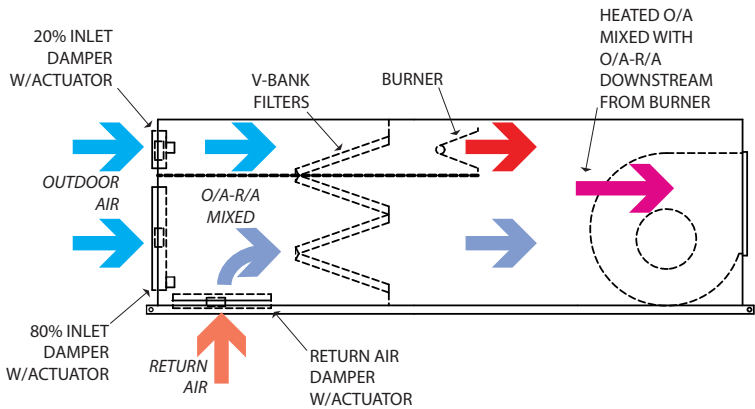
±1/8" (3mm)



| SIZE | B   | C  | E   | W  | X      |
|------|-----|----|-----|----|--------|
| 127  | 66  | 60 | 69  | 34 | 57 1/2 |
| 130  | 66  | 60 | 100 | 48 | 57 1/2 |
| 133  | 74  | 66 | 103 | 48 | 65 1/2 |
| 136  | 88  | 66 | 100 | 48 | 79 1/2 |
| 218  | 87  | 40 | 65  | 36 | 83     |
| 222  | 104 | 54 | 65  | 50 | 100    |
| 227  | 134 | 60 | 71  | 56 | 130    |
| 230  | 134 | 60 | 100 | 56 | 130    |
| 233  | 156 | 66 | 100 | 62 | 152    |
| 236  | 156 | 66 | 100 | 62 | 152    |

| SIZE | A       | B       | C       | D       | E       |
|------|---------|---------|---------|---------|---------|
| 127  | (1,676) | (1,524) | (1,753) | (864)   | (1,461) |
| 130  | (1,676) | (1,524) | (2,540) | (1,219) | (1,461) |
| 133  | (1,880) | (1,676) | (2,616) | (1,219) | (1,664) |
| 136  | (2,235) | (1,676) | (2,540) | (1,219) | (2,019) |
| 218  | (2,210) | (1,016) | (1,651) | (914)   | (2,108) |
| 222  | (2,642) | (1,372) | (1,651) | (1,270) | (2,540) |
| 227  | (3,404) | (1,524) | (1,803) | (1,422) | (3,302) |
| 230  | (3,404) | (1,524) | (2,540) | (1,422) | (3,302) |
| 233  | (3,962) | (1,676) | (2,540) | (1,575) | (3,861) |
| 236  | (3,962) | (1,676) | (2,540) | (1,575) | (3,861) |

RETURN AIR PLENUM CONFIGURATION



The Return Air Plenum cabinet is capable of recirculating up to 80% return air. This allows Model DFC to be used as a combination makeup air and heating unit. A minimum of 20% fresh air must be provided at all times and the balance (80%) can be a combination of fresh and return air. With the dampers fixed for 80% recirculation, Model DFC functions as a space heater.

The above illustration is a representative diagram for how the Return Air Plenum works in a Model DFCH (horizontal unit). A diagram for Model DFCV (vertical unit) with the Return Air Plenum option is not shown, but the function and damper arrangements are similar.

Note: Not available in Canada.

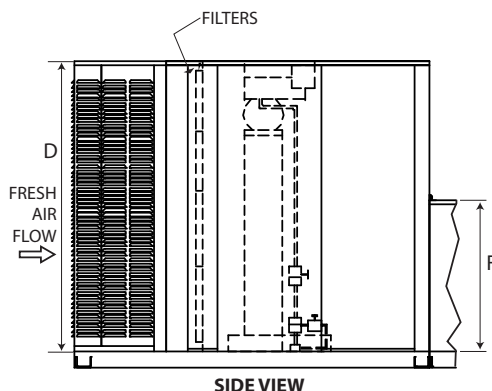
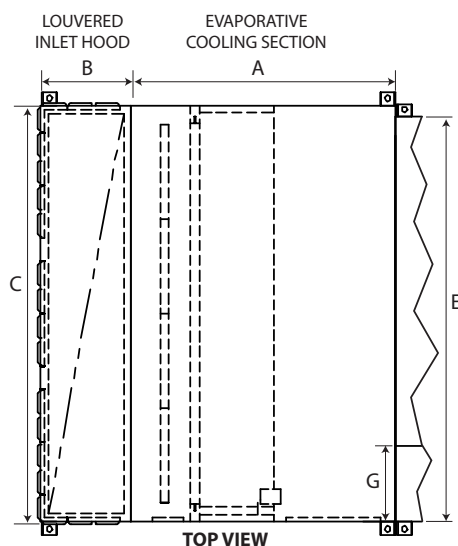
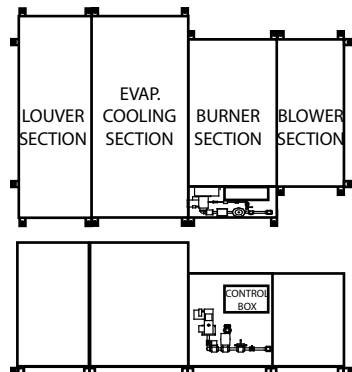
# REZNOR®

## DIMENSIONS (cont'd)

### DFCH ACCESSORIES (cont'd)

#### Evaporative Cooling Section

±1/8" (3mm)

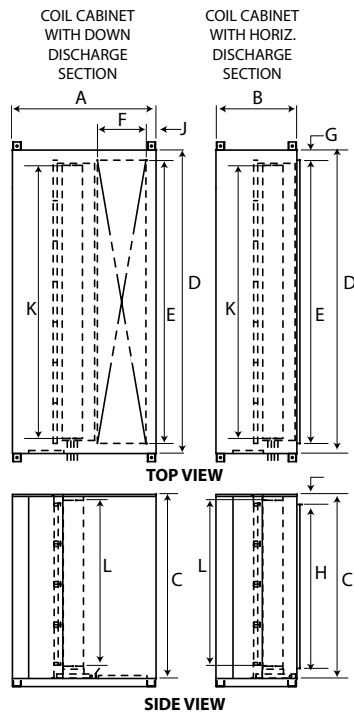
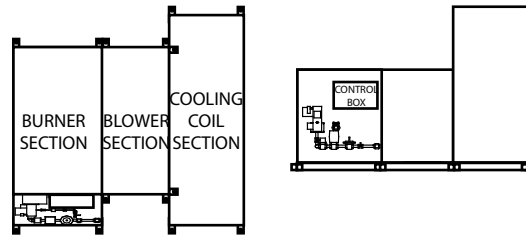


| SIZE | A       | B     | C       | D       | E       | F       | G     | 2" FILTERS               |
|------|---------|-------|---------|---------|---------|---------|-------|--------------------------|
| 127  | 90      | 24    | 134     | 93      | 66      | 60      | 20    | (15) 16x25<br>(10) 20x25 |
| 130  | 80      | 24    | 134     | 96      | 66      | 60      | 20    | (15) 16x25<br>(10) 20x25 |
| 133  | 80      | 24    | 134     | 112     | 74      | 66      | 20    | (20) 16x25<br>(10) 20x25 |
| 136  | 100     | 24    | 170     | 125     | 88      | 66      | 20    | (36) 20x25<br>(6) 20x16  |
| 218  | 70      | 24    | 110     | 77      | 87      | 40      | 20    | (8) 15x25<br>(8) 20x25   |
| 222  | 70      | 24    | 132     | 85      | 104     | 54      | 20    | (20) 20x25               |
| 227  | 90      | 38    | 170     | 110     | 134     | 60      | 20    | (20) 20x25<br>(15) 20x16 |
| 230  | 102     | 38    | 230     | 120     | 134     | 60      | 20    | (36) 20x25<br>(18) 16x25 |
| 233  | 102     | 38    | 230     | 120     | 156     | 66      | 20    | (36) 20x25<br>(18) 16x25 |
| 236  | 102     | 38    | 254     | 120     | 156     | 66      | 20    | (40) 20x25<br>(20) 16x25 |
| SIZE | A       | B     | C       | D       | E       | F       | F     | 2" FILTERS               |
| 127  | (2,286) | (610) | (3,404) | (2,362) | (1,676) | (1,524) | (508) | (15) 16x25<br>(10) 20x25 |
| 130  | (2,032) | (610) | (3,404) | (2,438) | (1,676) | (1,524) | (508) | (15) 16x25<br>(10) 20x25 |
| 133  | (2,032) | (610) | (3,404) | (2,845) | (1,880) | (1,676) | (508) | (20) 16x25<br>(10) 20x25 |
| 136  | (2,540) | (610) | (4,318) | (3,175) | (2,235) | (1,676) | (508) | (36) 20x25<br>(6) 20x16  |
| 218  | (1,778) | (610) | (2,794) | (1,956) | (2,210) | (1,016) | (508) | (8) 15x25<br>(8) 20x25   |
| 222  | (1,778) | (610) | (3,353) | (2,159) | (2,642) | (1,372) | (508) | (20) 20x25               |
| 227  | (2,286) | (965) | (4,318) | (2,794) | (3,404) | (1,524) | (508) | (20) 20x25<br>(15) 20x16 |
| 230  | (2,591) | (965) | (5,842) | (3,048) | (3,404) | (1,524) | (508) | (36) 20x25<br>(18) 16x25 |
| 233  | (2,591) | (965) | (5,842) | (3,048) | (3,962) | (1,676) | (508) | (36) 20x25<br>(18) 16x25 |
| 236  | (2,591) | (965) | (6,452) | (3,048) | (3,962) | (1,676) | (508) | (40) 20x25<br>(20) 16x25 |

### DFCH ACCESSORIES (cont'd)

#### Cooling Coil Section

±1/8" (3mm)

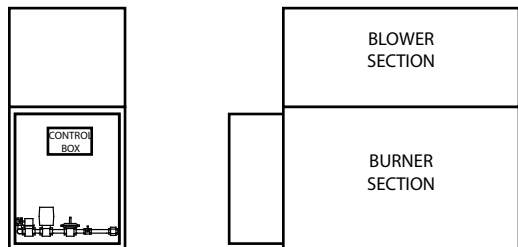


| SIZE | A       | B       | C       | D       | E       | G     | H       | J     | K       | L       |
|------|---------|---------|---------|---------|---------|-------|---------|-------|---------|---------|
| 127  | 95      | 61      | 94      | 105     | 95      | 5     | 84      | 4 1/2 | 90      | 85      |
| 130  | 102     | 66      | 105     | 115     | 105     | 5     | 95      | 4 1/2 | 100     | 96      |
| 133  | 102     | 66      | 109     | 125     | 115     | 5     | 99      | 4 1/2 | 110     | 100     |
| 136  | 115     | 71      | 119     | 141     | 131     | 5     | 109     | 4 1/2 | 126     | 110     |
| 218  | 74      | 50      | 65      | 113     | 103     | 5     | 55      | 4 1/2 | 98      | 56      |
| 222  | 84      | 60      | 78      | 130     | 120     | 5     | 68      | 4 1/2 | 115     | 69      |
| 227  | 106     | 70      | 103     | 179     | 169     | 5     | 93      | 6     | 164     | 94      |
| 230  | 122     | 80      | 119     | 193     | 183     | 5     | 109     | 6     | 178     | 110     |
| 233  | 123     | 80      | 122     | 214     | 204     | 5     | 112     | 6     | 199     | 113     |
| 236  | 136     | 90      | 131     | 222     | 212     | 5     | 121     | 6     | 207     | 122     |
| SIZE | A       | B       | C       | D       | E       | G     | H       | J     | K       | L       |
| 127  | (2,413) | (1,549) | (2,388) | (2,667) | (2,413) | (127) | (2,134) | (114) | (2,286) | (2,159) |
| 130  | (2,591) | (1,676) | (2,667) | (2,921) | (2,667) | (127) | (2,413) | (114) | (2,540) | (2,438) |
| 133  | (2,591) | (1,676) | (2,769) | (3,175) | (2,921) | (127) | (2,515) | (114) | (2,794) | (2,540) |
| 136  | (2,921) | (1,803) | (3,023) | (3,581) | (3,327) | (127) | (2,769) | (114) | (3,200) | (2,794) |
| 218  | (1,880) | (1,270) | (1,651) | (2,870) | (2,616) | (127) | (1,397) | (114) | (2,489) | (1,422) |
| 222  | (2,134) | (1,524) | (1,981) | (3,302) | (3,048) | (127) | (1,727) | (114) | (2,921) | (1,753) |
| 227  | (2,692) | (1,778) | (2,616) | (4,547) | (4,293) | (127) | (2,362) | (152) | (4,166) | (2,388) |
| 230  | (3,099) | (2,032) | (3,023) | (4,902) | (4,648) | (127) | (2,769) | (152) | (4,521) | (2,794) |
| 233  | (3,124) | (2,032) | (3,099) | (5,436) | (5,182) | (127) | (2,845) | (152) | (5,055) | (2,870) |
| 236  | (3,454) | (2,286) | (3,327) | (5,639) | (5,385) | (127) | (3,073) | (152) | (5,258) | (3,099) |

## DFCV Basic Vertical Units

Burner Section and Blower Section only

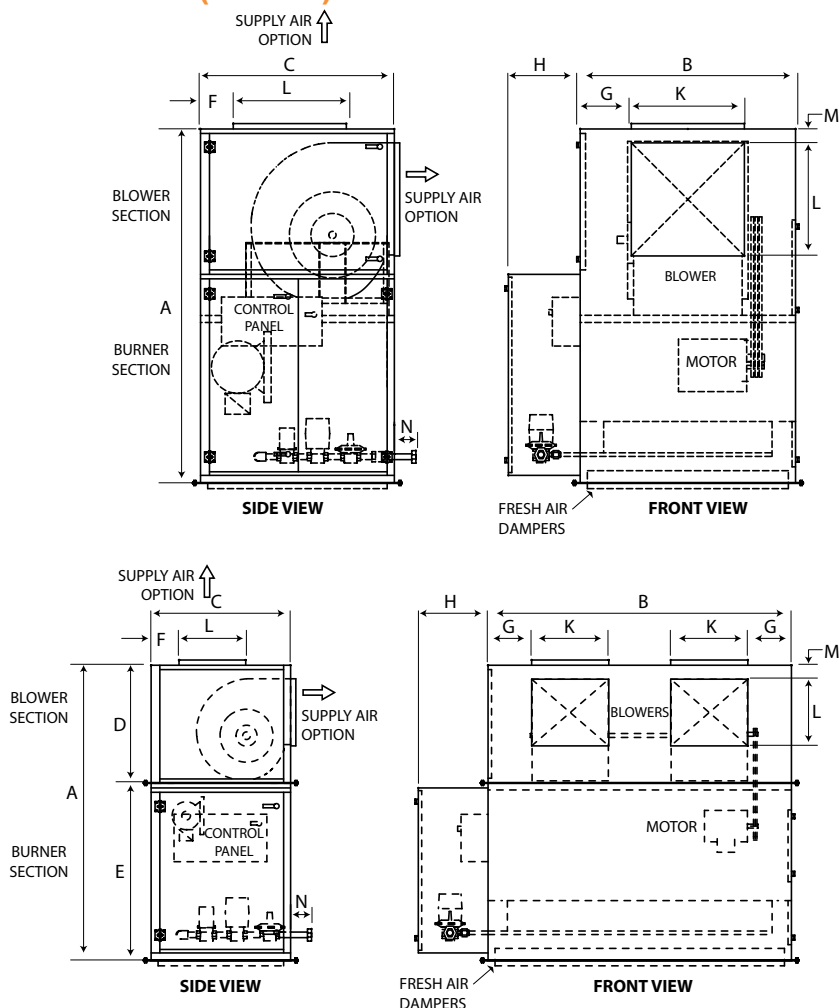
±1/8" (3mm)



**NOTE:** Dimensions are the same for upflow and downflow units. On a floor-mounted, downflow unit with side discharge is ordered (Option AQ30), a four inch base is included.

## DIMENSIONS (cont'd)

Page Number \_\_\_\_\_ of \_\_\_\_\_



| SIZE | A       | B       | C       | D       | E       | F      | G      | H     | K       | L       | M     | N    |
|------|---------|---------|---------|---------|---------|--------|--------|-------|---------|---------|-------|------|
| 127  | 104 5/8 | 66      | 60      | N/A     | N/A     | 10 3/8 | 15 3/4 | 20    | 34 1/2  | 34 1/2  | 3 7/8 | 3    |
| 130  | 104 5/8 | 66      | 60      | N/A     | N/A     | 6 3/8  | 14 1/2 | 20    | 37      | 37      | 3 7/8 | 3    |
| 133  | 116 5/8 | 74      | 66      | N/A     | N/A     | 8 1/8  | 17     | 20    | 40      | 43 3/16 | 3 7/8 | 3    |
| 136  | 116 5/8 | 88      | 66      | N/A     | N/A     | 8 1/8  | 22 1/2 | 20    | 43      | 43 3/16 | 3 7/8 | 3    |
| 218  | 84 5/8  | 87      | 40      | N/A     | N/A     | 8      | 12 1/2 | 20    | 22 1/8  | 19 1/8  | 4     | 3    |
| 222  | 86 5/8  | 104     | 54      | 38 5/8  | 58      | 11 7/8 | 13 3/4 | 20    | 27 1/2  | 27 1/2  | 4     | 3    |
| 227  | 116 5/8 | 134     | 60      | 58 5/8  | 58      | 7 7/8  | 19     | 20    | 34 1/2  | 34 1/2  | 4     | 3    |
| 230  | 116 5/8 | 134     | 60      | 58 5/8  | 58      | 3 7/8  | 15     | 20    | 37      | 37      | 4     | 3    |
| 233  | 124 5/8 | 156     | 66      | 66 5/8  | 58      | 5 5/8  | 21 5/8 | 20    | 40      | 43 3/16 | 4     | 3    |
| 236  | 124 5/8 | 156     | 66      | 66 5/8  | 58      | 5 5/8  | 17     | 20    | 43      | 43 3/16 | 4     | 3    |
| SIZE | A       | B       | C       | D       | E       | F      | G      | H     | K       | L       | M     | N    |
| 127  | (2,657) | (1,676) | (1,524) | N/A     | N/A     | (264)  | (400)  | (508) | (876)   | (876)   | (98)  | (76) |
| 130  | (2,657) | (1,676) | (1,524) | N/A     | N/A     | (162)  | (368)  | (508) | (940)   | (940)   | (98)  | (76) |
| 133  | (2,962) | (1,880) | (1,676) | N/A     | N/A     | (206)  | (432)  | (508) | (1,016) | (1,097) | (98)  | (76) |
| 136  | (2,962) | (2,235) | (1,676) | N/A     | N/A     | (206)  | (572)  | (508) | (1,092) | (1,097) | (98)  | (76) |
| 218  | (2,149) | (2,210) | (1,016) | N/A     | N/A     | (203)  | (318)  | (508) | (562)   | (486)   | (102) | (76) |
| 222  | (2,200) | (2,642) | (1,372) | (981)   | (1,473) | (302)  | (349)  | (508) | (699)   | (699)   | (102) | (76) |
| 227  | (2,962) | (3,404) | (1,524) | (1,489) | (1,473) | (200)  | (483)  | (508) | (876)   | (876)   | (102) | (76) |
| 230  | (2,962) | (3,404) | (1,524) | (1,489) | (1,473) | (98)   | (381)  | (508) | (940)   | (940)   | (102) | (76) |
| 233  | (3,165) | (3,962) | (1,676) | (1,692) | (1,473) | (143)  | (549)  | (508) | (1,016) | (1,097) | (102) | (76) |
| 236  | (3,165) | (3,962) | (1,676) | (1,692) | (1,473) | (143)  | (432)  | (508) | (1,092) | (1,097) | (102) | (76) |

<sup>1</sup> 1-1/2" inlet and discharge flanges

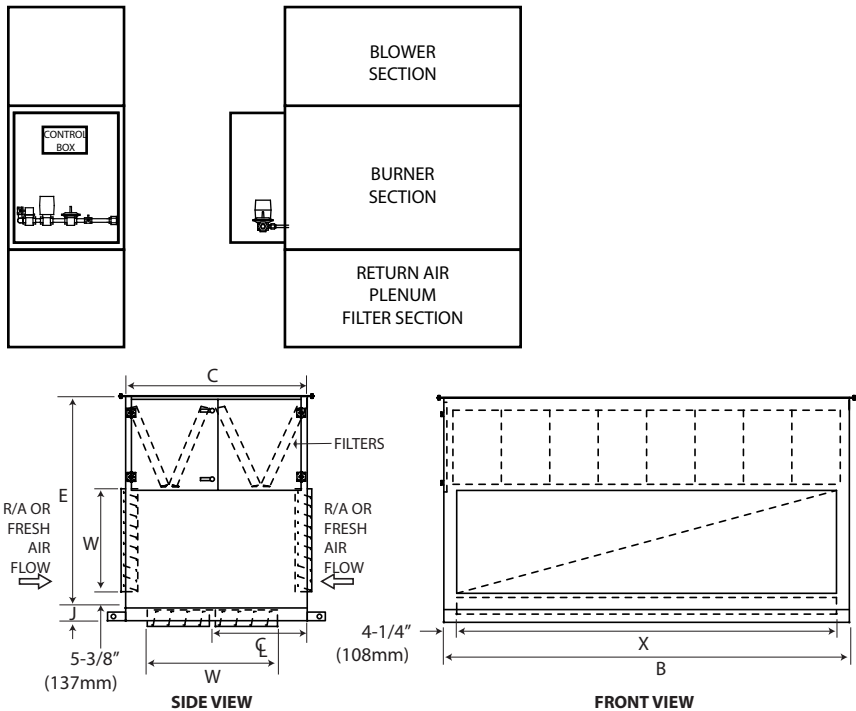
<sup>2</sup> DFCV233 and larger burner and blower sections WILL be split for shipping.

<sup>3</sup> Service panel access must not be restricted. A minimum clearance of 36" (915mm) is recommended.

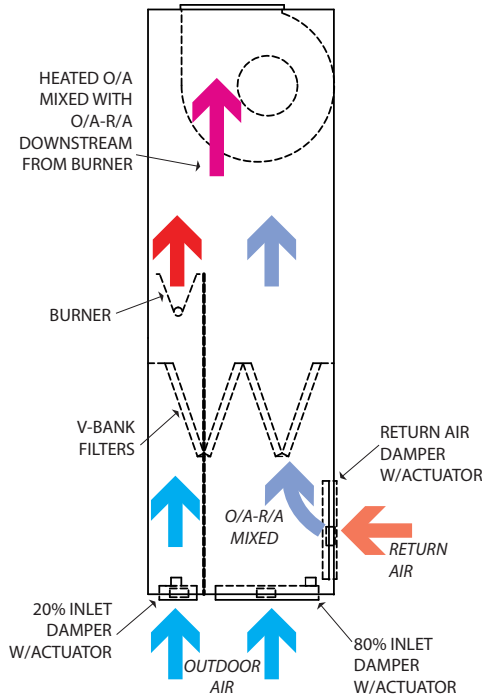
DFCV ACCESSORIES (cont'd)

Return Air Plenum Section

±1/8" (3mm)



RETURN AIR PLENUM CONFIGURATION



| SIZE | B   | C  | E   | W  | X      |
|------|-----|----|-----|----|--------|
| 127  | 66  | 60 | 69  | 34 | 57 1/2 |
| 130  | 66  | 60 | 100 | 48 | 57 1/2 |
| 133  | 74  | 66 | 103 | 48 | 65 1/2 |
| 136  | 88  | 66 | 100 | 48 | 79 1/2 |
| 218  | 87  | 40 | 65  | 36 | 8 3    |
| 222  | 104 | 54 | 65  | 50 | 100    |
| 227  | 134 | 60 | 71  | 56 | 130    |
| 230  | 134 | 60 | 100 | 56 | 130    |
| 233  | 156 | 66 | 100 | 62 | 15 2   |
| 236  | 156 | 66 | 100 | 62 | 152    |

| SIZE | A       | B       | C       | D       | E       |
|------|---------|---------|---------|---------|---------|
| 127  | (1,676) | (1,524) | (1,753) | (864)   | (1,461) |
| 130  | (1,676) | (1,524) | (2,540) | (1,219) | (1,461) |
| 133  | (1,880) | (1,676) | (2,616) | (1,219) | (1,664) |
| 136  | (2,235) | (1,676) | (2,540) | (1,219) | (2,019) |
| 218  | (2,210) | (1,016) | (1,651) | (914)   | (2,108) |
| 222  | (2,642) | (1,372) | (1,651) | (1,270) | (2,540) |
| 227  | (3,404) | (1,524) | (1,803) | (1,422) | (3,302) |
| 230  | (3,404) | (1,524) | (2,540) | (1,422) | (3,302) |
| 233  | (3,962) | (1,676) | (2,540) | (1,575) | (3,861) |
| 236  | (3,962) | (1,676) | (2,540) | (1,575) | (3,861) |

The Return Air Plenum cabinet is capable of recirculating up to 80% return air. This allows Model DFC to be used as a combination makeup air and heating unit. A minimum of 20% fresh air must be provided at all times and the balance (80%) can be a combination of fresh and return air. With the dampers fixed for 80% recirculation, Model DFC functions as a space heater.

See the illustration for the Return Air Plenum for Model DFCH (horizontal unit). A diagram for Model DFCV (vertical unit) with the Return Air Plenum option is not shown, but the function and damper arrangements are similar.

**Note:** Not available in Canada.

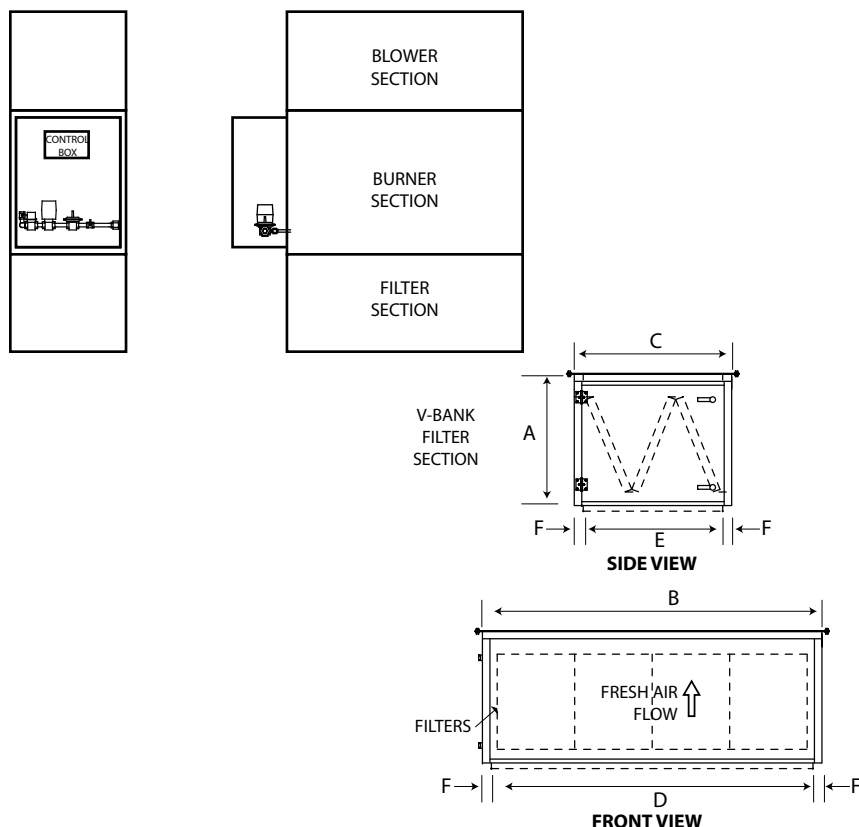
# REZNOR®

## DIMENSIONS (cont'd)

### DFCV ACCESSORIES

#### V-Bank Filter Section

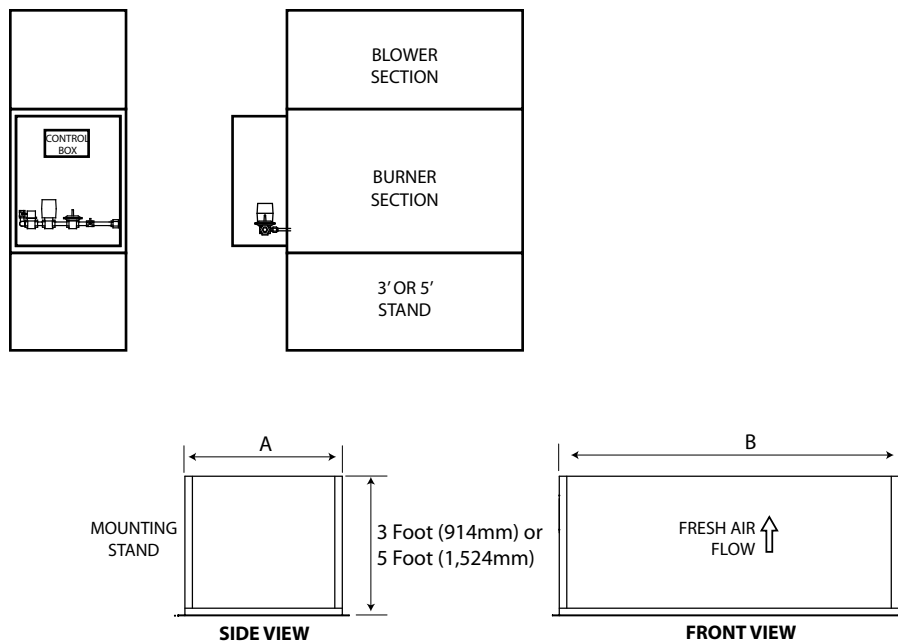
±1/8" (3mm)



| SIZE | A       | B       | C       | D       | E       | F      |
|------|---------|---------|---------|---------|---------|--------|
| 127  | 34      | 66 5/8  | 60 5/8  | 62      | 56      | 2 5/16 |
| 130  | 50      | 66 5/8  | 60 5/8  | 62      | 56      | 2 5/16 |
| 133  | 50      | 74 5/8  | 66 5/8  | 70      | 62      | 2 5/16 |
| 136  | 50      | 88 5/8  | 66 5/8  | 84      | 62      | 2 5/16 |
| 218  | 34      | 87 5/8  | 40 5/8  | 83      | 36      | 2 5/16 |
| 222  | 34      | 104 5/8 | 54 5/8  | 100     | 50      | 2 5/16 |
| 227  | 34      | 134 5/8 | 60 5/8  | 130     | 56      | 2 5/16 |
| 230  | 50      | 134 5/8 | 60 5/8  | 130     | 56      | 2 5/16 |
| 233  | 50      | 156 5/8 | 66 5/8  | 152     | 62      | 2 5/16 |
| 236  | 50      | 156 5/8 | 66 5/8  | 152     | 62      | 2 5/16 |
| SIZE | A       | B       | C       | D       | E       | F      |
| 127  | (864)   | (1,692) | (1,540) | (1,575) | (1,422) | (59)   |
| 130  | (1,270) | (1,692) | (1,540) | (1,575) | (1,422) | (59)   |
| 133  | (1,270) | (1,895) | (1,692) | (1,778) | (1,575) | (59)   |
| 136  | (1,270) | (2,251) | (1,692) | (2,134) | (1,575) | (59)   |
| 218  | (864)   | (2,226) | (1,032) | (2,108) | (914)   | (59)   |
| 222  | (864)   | (2,657) | (1,387) | (2,540) | (1,270) | (59)   |
| 227  | (864)   | (3,419) | (1,540) | (3,302) | (1,422) | (59)   |
| 230  | (1,270) | (3,419) | (1,540) | (3,302) | (1,422) | (59)   |
| 233  | (1,270) | (3,978) | (1,692) | (3,861) | (1,575) | (59)   |
| 236  | (1,270) | (3,978) | (1,692) | (3,861) | (1,575) | (59)   |

#### Mounting Stand

±1/8" (3mm)

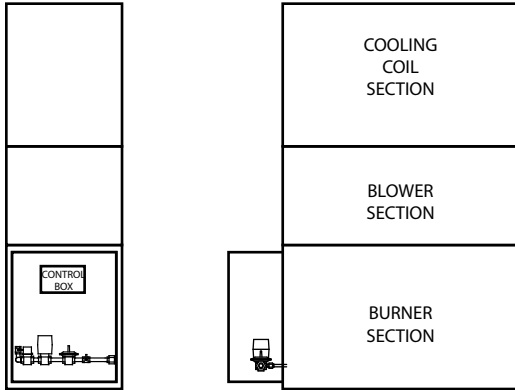


| SIZE | A       | B       |
|------|---------|---------|
| 127  | 60 5/8  | 66 5/8  |
| 130  | 60 5/8  | 66 5/8  |
| 133  | 66 5/8  | 74 5/8  |
| 136  | 66 5/8  | 88 5/8  |
| 218  | 40 5/8  | 87 5/8  |
| 222  | 54 5/8  | 104 5/8 |
| 227  | 60 5/8  | 134 5/8 |
| 230  | 60 5/8  | 134 5/8 |
| 233  | 66 5/8  | 156 5/8 |
| 236  | 66 5/8  | 156 5/8 |
| SIZE | A       | B       |
| 127  | (1,540) | (1,692) |
| 130  | (1,540) | (1,692) |
| 133  | (1,692) | (1,895) |
| 136  | (1,692) | (2,251) |
| 218  | (1,032) | (2,226) |
| 222  | (1,387) | (2,657) |
| 227  | (1,540) | (3,419) |
| 230  | (1,540) | (3,419) |
| 233  | (1,692) | (3,978) |
| 236  | (1,692) | (3,978) |

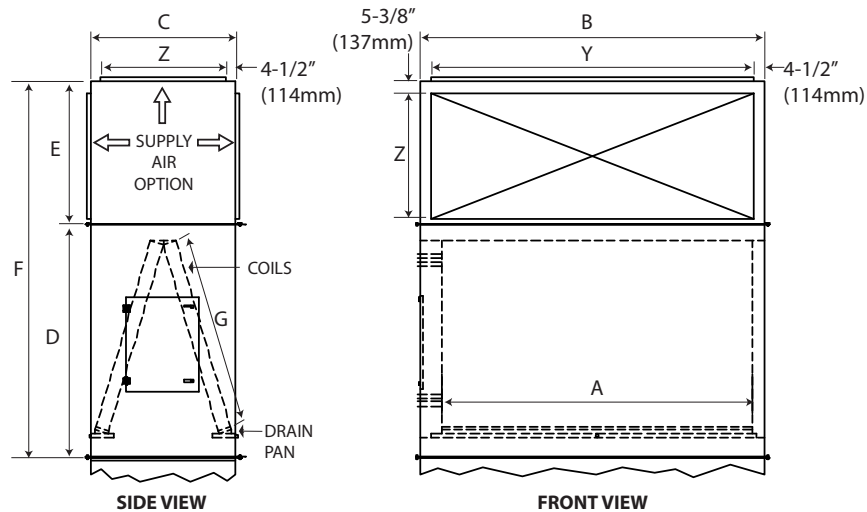
### DFCV ACCESSORIES (cont'd)

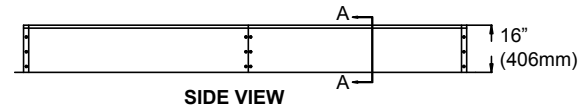
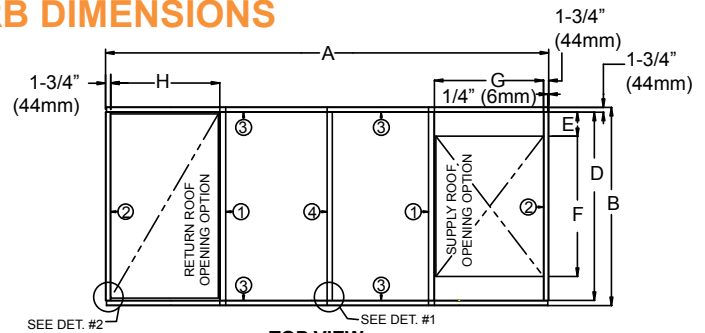
#### Cooling Coil Section

±1/8" (3mm)

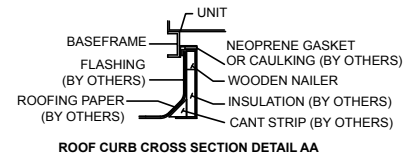
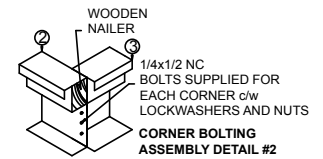
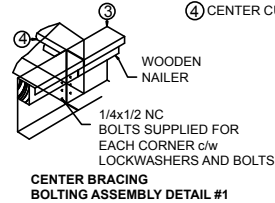


| SIZE | A       | B       | C       | D       | E       | F       | G       | Y       | Z       |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 127  | 51      | 66      | 60      | -       | -       | 148     | 72      | 57      | 51      |
| 130  | 51      | 66      | 60      | -       | -       | 164     | 88      | 57      | 51      |
| 133  | 59      | 74      | 66      | -       | -       | 172     | 90      | 65      | 57      |
| 136  | 73      | 88      | 66      | -       | -       | 165     | 83      | 79      | 57      |
| 218  | 72      | 87      | 40      | -       | -       | 96      | 37      | 78      | 31      |
| 222  | 89      | 104     | 54      | -       | -       | 112     | 42      | 95      | 45      |
| 227  | 119     | 134     | 60      | -       | -       | 140     | 64      | 125     | 51      |
| 230  | 119     | 134     | 60      | -       | -       | 157     | 81      | 125     | 51      |
| 233  | 141     | 156     | 66      | 97      | 65      | 162     | 80      | 147     | 57      |
| 236  | 141     | 156     | 66      | 97      | 65      | 162     | 88      | 147     | 57      |
| SIZE | A       | B       | C       | D       | E       | F       | G       | Y       | Z       |
| 127  | (1,295) | (1,676) | (1,524) | -       | -       | (3,759) | (1,829) | (1,448) | (1,295) |
| 130  | (1,295) | (1,676) | (1,524) | -       | -       | (4,166) | (2,235) | (1,448) | (1,295) |
| 133  | (1,499) | (1,880) | (1,676) | -       | -       | (4,369) | (2,286) | (1,651) | (1,448) |
| 136  | (1,854) | (2,235) | (1,676) | -       | -       | (4,191) | (2,108) | (2,007) | (1,448) |
| 218  | (1,829) | (2,210) | (1,016) | -       | -       | (2,438) | (940)   | (1,981) | (787)   |
| 222  | (2,261) | (2,642) | (1,372) | -       | -       | (2,845) | (1,067) | (2,413) | (1,143) |
| 227  | (3,023) | (3,404) | (1,524) | -       | -       | (3,556) | (1,626) | (3,175) | (1,295) |
| 230  | (3,023) | (3,404) | (1,524) | -       | -       | (3,988) | (2,057) | (3,175) | (1,295) |
| 233  | (3,581) | (3,962) | (1,676) | (2,464) | (1,651) | (4,115) | (2,032) | (3,734) | (1,448) |
| 236  | (3,581) | (3,962) | (1,676) | (2,464) | (1,651) | (4,115) | (2,235) | (3,734) | (1,448) |





- ① DUCT SUPPORT ANGLE
- ② CURB ENDS
- ③ CURB SIDES
- ④ CENTER CURB BRACKING (A/2)



### NOTE:

1. FIELD ASSEMBLED BY OTHERS.
2. ENSURE THAT THE 16 INCH CURB HEIGHT IS IN COMPLIANCE
3. ON UNITS OVER 108" IN LENGTH, THE CURB WILL 2 PIECE CONSTRUCTION & CENTER BRACING ITEM #4 ADDED AT SPLICE.
4. CONTRACTORS DUCTING MUST BE FLUSH WITH ROOF CURB TO ALLOW FOR PROPER MATING BETWEEN BUILDING DUCT AND UNIT.

| Size | Blower/Burner Section Only | with V-Bank Filter Section | with 80/20 Mix Box includes V-Bank Filters | B       | D       | E        | F       | G        | H        |
|------|----------------------------|----------------------------|--------------------------------------------|---------|---------|----------|---------|----------|----------|
| 127  | 100                        | 134                        | 169                                        | 61 3/8  | 57 7/8  | 11 3/16  | 35 1/2  | 35 15/16 | 35 13/16 |
| 130  | 100                        | 150                        | 200                                        | 61 3/8  | 57 7/8  | 9 15/16  | 38      | 38 7/16  | 49 13/16 |
| 133  | 112                        | 162                        | 215                                        | 69 3/8  | 65 7/8  | 12 7/16  | 41      | 44 5/8   | 49 13/16 |
| 136  | 112                        | 162                        | 212                                        | 83 3/8  | 79 7/8  | 17 15/16 | 44      | 44 5/8   | 49 13/16 |
| 218  | 80                         | 114                        | 145                                        | 82 3/8  | 78 7/8  | 7 15/16  | 63      | 20 11/16 | 37 13/16 |
| 222  | 82                         | 116                        | 147                                        | 99 3/8  | 95 7/8  | 9 3/16   | 77 1/2  | 28 15/16 | 51 13/16 |
| 227  | 111 1/8                    | 145 1/8                    | 182 1/8                                    | 128 1/2 | 125     | 14       | 97      | 35 1/2   | 57 5/8   |
| 230  | 111 1/8                    | 161 1/8                    | 211 1/8                                    | 128 1/2 | 125     | 10       | 105     | 38       | 57 5/8   |
| 233  | 119 1/8                    | 169 1/8                    | 219 1/8                                    | 150 1/2 | 147     | 16 5/8   | 113 3/4 | 44 3/16  | 63 5/8   |
| 236  | 119 1/8                    | 169 1/8                    | 219 1/8                                    | 150 1/2 | 147     | 12       | 123     | 44 3/16  | 63 5/8   |
| Size | Blower/Burner Section Only | with V-Bank Filter Section | with 80/20 Mix Box includes V-Bank Filters | B       | D       | E        | F       | G        | H        |
| 127  | (2,540)                    | (3,404)                    | (4,293)                                    | (1,559) | (1,470) | (284)    | (902)   | (913)    | (910)    |
| 130  | (2,540)                    | (3,810)                    | (5,080)                                    | (1,559) | (1,470) | (252)    | (965)   | (976)    | (1,265)  |
| 133  | (2,845)                    | (4,115)                    | (5,461)                                    | (1,762) | (1,673) | (316)    | (1,041) | (1,133)  | (1,265)  |
| 136  | (2,845)                    | (4,115)                    | (5,385)                                    | (2,118) | (2,029) | (456)    | (1,118) | (1,133)  | (1,265)  |
| 218  | (2,032)                    | (2,896)                    | (3,683)                                    | (2,092) | (2,003) | (202)    | (1,600) | (525)    | (960)    |
| 222  | (2,083)                    | (2,946)                    | (3,734)                                    | (2,524) | (2,435) | (233)    | (1,969) | (735)    | (1,316)  |
| 227  | (2,823)                    | (3,686)                    | (4,626)                                    | (3,264) | (3,175) | (356)    | (2,464) | (902)    | (1,464)  |
| 230  | (2,823)                    | (4,093)                    | (5,363)                                    | (3,264) | (3,175) | (254)    | (2,667) | (965)    | (1,464)  |
| 233  | (3,026)                    | (4,296)                    | (5,566)                                    | (3,823) | (3,734) | (422)    | (2,889) | (1,122)  | (1,616)  |
| 236  | (3,026)                    | (4,296)                    | (5,566)                                    | (3,823) | (3,734) | (305)    | (3,124) | (1,122)  | (1,616)  |

See footnotes on following page.

| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|------|----------------------------|--------------------------------|----------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 127  | 20000                      | 2478                           | 6.91                                                                                   | 7.74    | 8.59    | 9.49    | 11.44   | 15.46*  |
|      | 22000                      | 2726                           | 8.58                                                                                   | 9.48    | 10.4    | 11.34   | 13.34   | 15.53   |
|      | 25000                      | 3097                           | 12.3                                                                                   | 12.51   | 13.53   | 14.56   | 16.86   | 18.94   |
|      | 28000                      | 3469                           | 16.9                                                                                   | 17.54   | 18.23   | 18.69   | 21      | 23.39   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 130  | 25000                      | 2688                           | 9.17                                                                                   | 10.27   | 11.4    | 12.56   | 15.02   | 17.67   |
|      | 28000                      | 3010                           | 11.88                                                                                  | 12.9    | 14.13   | 15.38   | 17.98   | 20.73   |
|      | 30000                      | 3225                           | 14.64                                                                                  | 15.01   | 16.31   | 17.63   | 20.34   | 23.19   |
|      | 32000                      | 3440                           | 17.74                                                                                  | 18.29   | 18.84   | 20.24   | 23.08   | 26.04   |
|      | 35000                      | 3763                           | 23.18                                                                                  | 23.78   | 24.39   | 25      | 27.88   | 31.03   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 133  | 28000                      | 2323                           | 9.91                                                                                   | 11.12   | 12.36   | 13.65   | 16.4    | 20.62*  |
|      | 30000                      | 2489                           | 11.49                                                                                  | 12.78   | 14.09   | 15.43   | 18.25   | 21.28   |
|      | 32000                      | 2655                           | 13.3                                                                                   | 14.67   | 16.05   | 17.46   | 20.37   | 23.48   |
|      | 35000                      | 2904                           | 17.24                                                                                  | 17.9    | 19.41   | 20.92   | 24.01   | 27.24   |
|      | 40000                      | 3319                           | 25.7                                                                                   | 26.39   | 27.08   | 27.09   | 31.36   | 34.87   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 136  | 30000                      | 2343                           | 10.53                                                                                  | 11.78   | 13.06   | 14.38   | 17.22   | 21.16*  |
|      | 32000                      | 2499                           | 12.12                                                                                  | 13.44   | 14.78   | 16.16   | 19.06   | 22.21   |
|      | 35000                      | 2734                           | 15.21                                                                                  | 16.26   | 17.71   | 19.18   | 22.21   | 25.44   |
|      | 40000                      | 3124                           | 22.66                                                                                  | 23.32   | 23.98   | 25.17   | 28.51   | 31.96   |
|      | 45000                      | 3515                           | 32.31                                                                                  | 33.05   | 33.8    | 34.54   | 36.18   | 39.94   |
|      | 50000                      | 3906                           | 44.29                                                                                  | 45.12   | 45.95   | 46.78   | 47.61   | 49.43   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 218  | 10000                      | 1742                           | 3.13                                                                                   | 3.7     | 4.54*   | 5.05*   | 6.09*   | 8.91*   |
|      | 12000                      | 2090                           | 4.23                                                                                   | 4.89    | 5.57    | 6.26    | 8.06*   | 9.29*   |
|      | 14000                      | 2439                           | 5.65                                                                                   | 6.42    | 7.19    | 7.97    | 9.55    | 11.96*  |
|      | 17000                      | 2961                           | 8.32                                                                                   | 9.23    | 10.14   | 11.06   | 12.93   | 14.83   |
|      | 20000                      | 3484                           | 13.42                                                                                  | 13.67   | 13.93   | 14.99   | 17.15   | 19.33   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 222  | 22000                      | 2156                           | 9.17                                                                                   | 10.27   | 11.4    | 12.56   | 15.02   | 17.67*  |
|      | 25000                      | 2450                           | 11.09                                                                                  | 12.32   | 13.59   | 14.9    | 17.67   | 20.63   |
|      | 28000                      | 2740                           | 13.88                                                                                  | 15.21   | 16.57   | 17.97   | 20.88   | 23.96   |

See footnotes on bottom of page.

| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|------|----------------------------|--------------------------------|----------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 227  | 30000                      | 1858                           | 8.21                                                                                   | 9.69    | 12.89*  | 14.48*  | 17.88*  | 25.23*  |
|      | 32000                      | 1982                           | 9.24                                                                                   | 10.73   | 14.38*  | 16.02*  | 19.51*  | 23.24*  |
|      | 35000                      | 2168                           | 10.99                                                                                  | 12.53   | 14.19   | 15.98   | 22.24*  | 26.11*  |
|      | 40000                      | 2478                           | 14.27                                                                                  | 15.94   | 17.68   | 19.5    | 23.46   | 31.51*  |
|      | 45000                      | 2788                           | 18.35                                                                                  | 20.2    | 22.06   | 23.98   | 28.04   | 32.47   |
|      | 50000                      | 3097                           | 24.03                                                                                  | 25.42   | 27.47   | 29.54   | 33.8    | 38.34   |
|      | 55000                      | 3407                           | 31.99                                                                                  | 32.9    | 33.8    | 36.05   | 40.61   | 45.34   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 230  | 45000                      | 2419                           | 14.95                                                                                  | 16.98   | 19.1    | 21.33   | 26.09   | 31.55   |
|      | 50000                      | 2688                           | 18.78                                                                                  | 20.98   | 23.25   | 25.6    | 30.56   | 35.9    |
|      | 55000                      | 2956                           | 23.27                                                                                  | 25.66   | 28.09   | 30.58   | 35.78   | 41.31   |
|      | 60000                      | 3225                           | 29.29                                                                                  | 31.05   | 33.67   | 36.32   | 41.8    | 47.56   |
|      | 70000                      | 3763                           | 46.36                                                                                  | 47.57   | 48.78   | 49.63   | 55.76   | 62.05   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 233  | 60000                      | 2489                           | 22.77                                                                                  | 25.35   | 27.96   | 30.64   | 36.26   | 45.80*  |
|      | 70000                      | 2904                           | 34.48                                                                                  | 35.69   | 37.61   | 40.63   | 46.77   | 53.17   |
|      | 75000                      | 3112                           | 42.4                                                                                   | 43.69   | 44.59   | 47.82   | 54.33   | 61.03   |
|      | 80000                      | 3319                           | 51.4                                                                                   | 52.78   | 54.16   | 55.81   | 62.71   | 69.75   |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | EXTERNAL STATIC PRESSURE**<br>(BURNER AND BLOWER ALREADY INCLUDED)<br>BRAKE HORSEPOWER |         |         |         |         |         |
|      |                            |                                | 0.25"WC                                                                                | 0.50"WC | 0.75"WC | 1.00"WC | 1.50"WC | 2.00"WC |
| 236  | 70000                      | 2734                           | 30.43                                                                                  | 31.94   | 34.83   | 37.76   | 43.8    | 50.21   |
|      | 75000                      | 2929                           | 37.39                                                                                  | 38.63   | 40.62   | 43.73   | 50.07   | 56.7    |
|      | 80000                      | 3124                           | 45.33                                                                                  | 46.64   | 47.97   | 50.35   | 57.03   | 63.92   |
|      | 90000                      | 3515                           | 64.61                                                                                  | 66.1    | 67.6    | 69.08   | 73.11   | 80.63   |

NOTE A: This area must be PSI in coming pressure.

### NOTES:

· THE AIR VOLUME CAPACITIES ARE BASED ON A 75°F ROOM TEMPERATURE AT SEA LEVEL.  
· THE INPUT CAPACITIES WERE BASED ON:  
**MBH = (CFM X C X (LAT - EAT))/1000**  
**MBH - BTUH/1000**  
**CFM - MAXIMUM AIR CAPACITY (CUBIC FEET/MINUTE)**  
**C - 1.188 BASED ON AN AIR DENSITY AT 75°F**  
**EAT - ENTERING DRY BULB TEMPERATURE (°F)**  
**LAT - LEAVING DRY BULB TEMPERATURE (°F)**

· BRAKE HORSEPOWER DATA IS BASED ON FORWARD CURVED DWDI FANS AND INCLUDES DRIVE LOSSES.  
· \*INDICATES THAT SMALLER BLOWER(S) IS/ARE REQUIRED TO ACHIEVE THE BRAKE HORSEPOWER LISTED.  
· \*\*ADD FOR ACCESSORY STATIC PRESSURE DROPS FOUND ON PAGE 21 AS REQUIRED.  
· MAX ESP TO UNIT = 1.5" W.C.

### CONSULT THE FACTORY FOR:

· HIGHER AIR CAPACITIES OR SPECIAL APPLICATIONS.  
· PERFORMANCE DATA AT HIGHER STATIC PRESSURES THAN LISTED.  
· PERFORMANCE DATA AT ELEVATIONS OTHER THAN SEA LEVEL.

See footnotes on following page.

| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|------|----------------------|--------------------------|-------------------------------|------|------|------|-------|-------|-------|-------------------------|
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 127  | 20000                | 2478                     | 1426                          | 1663 | 1901 | 2138 | 2376  | 2614  | 2851  | 1 1/4                   |
|      | 22000                | 2726                     | 1568                          | 1830 | 2091 | 2352 | 2614  | 2875  | 3136  | 1 1/2                   |
|      | 25000                | 3097                     | 1782                          | 2079 | 2376 | 2673 | 2970  | 3267  | 3564  | 2                       |
|      | 28000                | 3469                     | 1996                          | 2328 | 2661 | 2994 | 3326  | 3659  | 3992  | 2 1/2                   |
| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 130  | 25000                | 2688                     | 1782                          | 2079 | 2376 | 2673 | 2970  | 3267  | 3564  | 1                       |
|      | 28000                | 3010                     | 1996                          | 2328 | 2661 | 2994 | 3326  | 3659  | 3992  | 1 1/4                   |
|      | 30000                | 3225                     | 2138                          | 2495 | 2851 | 3208 | 3564  | 3920  | 4277  | 1 1/2                   |
|      | 32000                | 3440                     | 2281                          | 2661 | 3041 | 3421 | 3802  | 4182  | 4562  |                         |
|      | 35000                | 3763                     | 2495                          | 2911 | 3326 | 3742 | 4158  | 4574  | 4990  |                         |
| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 133  | 28000                | 2323                     | 1996                          | 2328 | 2661 | 2994 | 3326  | 3659  | 3992  | 2                       |
|      | 30000                | 2489                     | 2138                          | 2495 | 2851 | 3208 | 3564  | 3920  | 4277  | 2 1/2                   |
|      | 32000                | 2655                     | 2281                          | 2661 | 3041 | 3421 | 3802  | 4182  | 4562  | 3                       |
|      | 35000                | 2904                     | 2495                          | 2911 | 3326 | 3742 | 4158  | 4574  | 4990  | 3 (1 PSI)               |
|      | 40000                | 3319                     | 2851                          | 3326 | 3802 | 4277 | 4752  | 5227  | 5702  |                         |
| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 136  | 30000                | 2343                     | 2138                          | 2495 | 2851 | 3208 | 3564  | 3920  | 4277  | 2                       |
|      | 32000                | 2499                     | 2281                          | 2661 | 3041 | 3421 | 3802  | 4182  | 4562  | 2 1/2                   |
|      | 35000                | 2734                     | 2495                          | 2911 | 3326 | 3742 | 4158  | 4574  | 4990  | 3                       |
|      | 40000                | 3124                     | 2851                          | 3326 | 3802 | 4277 | 4752  | 5227  | 5702  | 3 (1 PSI)               |
|      | 45000                | 3515                     | 3208                          | 3742 | 4277 | 4811 | 5346  | 5881  | 6415  |                         |
|      | 50000                | 3906                     | 3564                          | 4158 | 4752 | 5346 | 5940  | 6534  | 7128  |                         |
| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 218  | 10000                | 1742                     | 713                           | 832  | 950  | 1069 | 1188  | 1307  | 1426  | 1                       |
|      | 12000                | 2090                     | 855                           | 998  | 1140 | 1283 | 1426  | 1568  | 1711  | 1 1/4                   |
|      | 14000                | 2439                     | 998                           | 1164 | 1331 | 1497 | 1663  | 1830  | 1996  | 1 1/2                   |
|      | 17000                | 2961                     | 1212                          | 1414 | 1616 | 1818 | 2020  | 2222  | 2424  | 2                       |
|      | 20000                | 3484                     | 1426                          | 1663 | 1901 | 2138 | 2376  | 2614  | 2851  |                         |
| SIZE | DESIGN AIRFLOW (CFM) | DISCHARGE VELOCITY (FPM) | TEMPERATURE RISE MBH CAPACITY |      |      |      |       |       |       | GAS CONNECTION (INCHES) |
|      |                      |                          | 60°F                          | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                         |
| 222  | 22000                | 2156                     | 1568                          | 1830 | 2091 | 2352 | 2614  | 2875  | 3136  | 1 1/4                   |
|      | 25000                | 2450                     | 1782                          | 2079 | 2376 | 2673 | 2970  | 3267  | 3564  | 1 1/2                   |
|      | 28000                | 2740                     | 1996                          | 2328 | 2661 | 2994 | 3326  | 3659  | 3992  | 2                       |
|      |                      |                          |                               |      |      |      |       |       |       | 2 1/2                   |

See footnotes on bottom of page.

| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | TEMPERATURE RISE<br>MBH CAPACITY |      |      |      |       |       |       | GAS<br>CONNECTION<br>(INCHES) |
|------|----------------------------|--------------------------------|----------------------------------|------|------|------|-------|-------|-------|-------------------------------|
|      |                            |                                | 60°F                             | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                               |
| 227  | 30000                      | 1858                           | 2138                             | 2495 | 2851 | 3208 | 3564  | 3920  | 4277  | 2                             |
|      | 32000                      | 1982                           | 2281                             | 2661 | 3041 | 3421 | 3802  | 4182  | 4562  | 2 1/2                         |
|      | 35000                      | 2168                           | 2495                             | 2911 | 3326 | 3742 | 4158  | 4574  | 4990  | 3                             |
|      | 40000                      | 2478                           | 2851                             | 3326 | 3802 | 4277 | 4752  | 5227  | 5702  | (1 PSI)                       |
|      | 45000                      | 2788                           | 3208                             | 3742 | 4277 | 4811 | 5346  | 5881  | 6415  |                               |
|      | 50000                      | 3097                           | 3564                             | 4158 | 4752 | 5346 | 5940  | 6534  | 7128  |                               |
|      | 55000                      | 3407                           | 3920                             | 4574 | 5227 | 5881 | 6534  | 7187  | 7841  |                               |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | TEMPERATURE RISE<br>MBH CAPACITY |      |      |      |       |       |       | GAS<br>CONNECTION<br>(INCHES) |
|      |                            |                                | 60°F                             | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                               |
| 230  | 45000                      | 2419                           | 3208                             | 3742 | 4277 | 4811 | 5346  | 5881  | 6415  | 2 1/2                         |
|      | 50000                      | 2688                           | 3540                             | 4130 | 4720 | 5310 | 5900  | 6490  | 7080  | 3                             |
|      | 55000                      | 2956                           | 3920                             | 4574 | 5227 | 5881 | 6534  | 7187  | 7841  | 3 (1 PSI)                     |
|      | 60000                      | 3225                           | 4227                             | 4990 | 5702 | 6415 | 7128  | 7841  | 8554  |                               |
|      | 70000                      | 3763                           | 4990                             | 5821 | 6653 | 7484 | 8316  | 9148  | 9979  |                               |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | TEMPERATURE RISE<br>MBH CAPACITY |      |      |      |       |       |       | GAS<br>CONNECTION<br>(INCHES) |
|      |                            |                                | 60°F                             | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                               |
| 233  | 60000                      | 2489                           | 4227                             | 4990 | 5702 | 6415 | 7128  | 7841  | 8554  | 2 1/2                         |
|      | 70000                      | 2904                           | 4990                             | 5821 | 6653 | 7484 | 8316  | 9148  | 9979  | 3                             |
|      | 75000                      | 3112                           | 5346                             | 6237 | 7128 | 8019 | 8910  | 9801  | 10692 | 3 (1 PSI)                     |
|      | 80000                      | 3319                           | 5702                             | 6653 | 7603 | 8554 | 9504  | 10454 | 11405 |                               |
| SIZE | DESIGN<br>AIRFLOW<br>(CFM) | DISCHARGE<br>VELOCITY<br>(FPM) | TEMPERATURE RISE<br>MBH CAPACITY |      |      |      |       |       |       | GAS<br>CONNECTION<br>(INCHES) |
|      |                            |                                | 60°F                             | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F |                               |
| 236  | 70000                      | 2734                           | 4990                             | 5821 | 6653 | 7484 | 8316  | 9148  | 9979  | 2 1/2                         |
|      | 75000                      | 2929                           | 5346                             | 6237 | 7128 | 8019 | 8910  | 9801  | 10692 | 3                             |
|      | 80000                      | 3124                           | 5702                             | 6653 | 7603 | 8554 | 9504  | 10454 | 11405 | 3 (1 PSI)                     |
|      | 90000                      | 3515                           | 6415                             | 7484 | 8554 | 9623 | 10692 | 11761 | 12830 |                               |

NOTE A: This area must be PSI in coming pressure.

### NOTES:

· THE AIR VOLUME CAPACITIES ARE BASED ON A 75°F ROOM TEMPERATURE AT SEA LEVEL.  
 · THE INPUT CAPACITIES WERE BASED ON:  
 $MBH = (CFM \times C \times (LAT - EAT)) / 1000$   
 $MBH - BTUH/1000$   
 $CFM - MAXIMUM AIR CAPACITY (CUBIC FEET/MINUTE)$   
 $C - 1.188$  BASED ON AN AIR DENSITY AT 75°F  
 $EAT - ENTERING DRY BULB TEMPERATURE (°F)$   
 $LAT - LEAVING DRY BULB TEMPERATURE (°F)$

· BRAKE HORSEPOWER DATA IS BASED ON FORWARD CURVED DWDI FANS AND INCLUDES DRIVE LOSSES.  
 · \*INDICATES THAT SMALLER BLOWER(S) IS/ARE REQUIRED TO ACHIEVE THE BRAKE HORSEPOWER LISTED.  
 · \*\*ADD FOR ACCESSORY STATIC PRESSURE DROPS FOUND ON PAGE 21 AS REQUIRED.  
 · MAX ESP TO UNIT = 1.5" W.C.

### CONSULT THE FACTORY FOR:

· HIGHER AIR CAPACITIES OR SPECIAL APPLICATIONS.  
 · PERFORMANCE DATA AT HIGHER STATIC PRESSURES THAN LISTED.  
 · PERFORMANCE DATA AT ELEVATIONS OTHER THAN SEA LEVEL.

### FILTER TABLE

Filter specifications for Model DFC

| SIZE | FILTER QTY. | FILTER SIZE(S) (INCHES) | TOTAL FILTER FREE AREA (FEET) | MAXIMUM AIR FLOW (CFM) | FILTER FACE VELOCITY (FPM) |
|------|-------------|-------------------------|-------------------------------|------------------------|----------------------------|
| 127  | 16          | 20x25x2                 | 55.6                          | 28,000                 | 504                        |
| 130  | 20          | 20x25x2                 | 69.4                          | 35,000                 | 504                        |
| 133  | 10          | 16x25x2                 | 79.9                          | 40,000                 | 501                        |
|      | 15          | 20x25x2                 |                               |                        |                            |
| 136  | 32          | 20X25X2                 | 111.1                         | 50,000                 | 450                        |
| 218  | 12          | 20X25X2                 | 41.7                          | 20,000                 | 480                        |
| 222  | 16          | 20X25X2                 | 66.7                          | 28,000                 | 403                        |
|      | 4           | 20X20X2                 |                               |                        |                            |
| 225  | 24          | 20X25X2                 | 83.3                          | 40,000                 | 480                        |
| 227  | 35          | 20X25X2                 | 121.5                         | 55,000                 | 453                        |
| 230  | 48          | 20X25X2                 | 166.7                         | 70,000                 | 420                        |
| 233  | 56          | 20X25X2                 | 194.4                         | 80,000                 | 412                        |
| 236  | 56          | 20X25X2                 | 194.4                         | 90,000                 | 463                        |
| 330  | 72          | 20X25X2                 | 250                           | 105,000                | 420                        |
| 336  | 72          | 20X25X2                 | 250                           | 140,000                | 560                        |

**NOTE:**

· THE STATIC PRESSURE DROP THROUGH THE V-BANK FILTERS IS APPROXIMATELY 0.6 W.C. (CLEAN) AND APPROXIMATELY 1.00"W.C. (DIRTY).

### STATIC PRESSURE DROP TABLE

Static pressure drop values for DFC accessories.

| ACCESSORIES                     | STATIC PRESSURE DROP ( IN. W.C.) |
|---------------------------------|----------------------------------|
| INLET HOOD W/ FILTERS           | 0.4                              |
| INLET HOOD W/O FILTERS          | 0.1                              |
| INLET LOUVER                    | 0.2                              |
| EVAPORATIVE COOLER (INDUSTRIAL) | 0.4                              |
| INLET DAMPER                    | 0.1                              |
| DX PLENUM AND COIL              | 0.6                              |
| FILTER (V-BANK)                 | 0.6                              |
| 80/20 MIX BOX W/FILTERS         | 0.7                              |
| HORIZONTAL DISCHARGE HEAD       | 0.5                              |
| 4-WAY DISCHARGE HEAD -          | 0.5                              |

**NOTE:**

· ACCESSORY STATIC PRESSURE DROPS ARE CALCULATED AT MAXIMUM CFM LOADS.

### MODEL DFCH AND OPTIONAL SECTIONS

lbs. (kg)

| SIZE |      | BASIC UNIT<br>(BURNER/<br>BLOWER SEC.) | WEATHER<br>HOUSING | V-BANK SEC.<br>(W/ FILTERS) | RETURN AIR<br>PLENUM<br>(W/ FILTERS &<br>DAMPERS) | LOUVERED INLET<br>PLENUM W/ V-<br>BANK | HORIZ. DISCHARGE<br>COIL PLENUM<br>(W/O COIL) | DOWN DISCHARGE<br>COIL PLENUM (W/O<br>COIL) |
|------|------|----------------------------------------|--------------------|-----------------------------|---------------------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|
| 127  | lbs. | 2345                                   | 188                | 337                         | 915                                               | 600                                    | 216                                           | 369                                         |
|      | (kg) | (1,064)                                | (85)               | (153)                       | (415)                                             | (272)                                  | (98)                                          | (167)                                       |
| 130  | lbs. | 2415                                   | 188                | 638                         | 1110                                              | 680                                    | 270                                           | 543                                         |
|      | (kg) | (1,095)                                | (85)               | (289)                       | (503)                                             | (308)                                  | (122)                                         | (246)                                       |
| 133  | lbs. | 3105                                   | 204                | 685                         | 1460                                              | 770                                    | 205                                           | 394                                         |
|      | (kg) | (1,408)                                | (93)               | (311)                       | (662)                                             | (349)                                  | (93)                                          | (179)                                       |
| 136  | lbs. | 3510                                   | 204                | 770                         | 1650                                              | 970                                    | 235                                           | 394                                         |
|      | (kg) | (1,592)                                | (93)               | (349)                       | (748)                                             | (440)                                  | (107)                                         | (179)                                       |
| 218  | lbs. | 2225                                   | 140                | 475                         | 900                                               | 394                                    | 270                                           | 518                                         |
|      | (kg) | (1,009)                                | (64)               | (215)                       | (408)                                             | (179)                                  | (122)                                         | (235)                                       |
| 222  | lbs. | 3080                                   | 170                | 640                         | 1265                                              | 560                                    | 312                                           | 627                                         |
|      | (kg) | (1,397)                                | (77)               | (290)                       | (574)                                             | (254)                                  | (142)                                         | (284)                                       |
| 227  | lbs. | 4335                                   | 177                | 890                         | 1830                                              | 1540                                   | 335                                           | 673                                         |
|      | (kg) | (1,966)                                | (80)               | (404)                       | (830)                                             | (699)                                  | (152)                                         | (305)                                       |
| 230  | lbs. | 4750                                   | 177                | 1155                        | 2225                                              | 1940                                   | 355                                           | 713                                         |
|      | (kg) | (2,155)                                | (80)               | (524)                       | (1,009)                                           | (880)                                  | (161)                                         | (323)                                       |
| 233  | lbs. | 5980                                   | 200                | 1365                        | 2675                                              | 2330                                   | 368                                           | 910                                         |
|      | (kg) | (2,713)                                | (91)               | (619)                       | (1,213)                                           | (1,057)                                | (167)                                         | (413)                                       |
| 236  | lbs. | 6110                                   | 200                | 1365                        | 2675                                              | 2330                                   | 390                                           | 960                                         |
|      | (kg) | (2,771)                                | (91)               | (619)                       | (1,213)                                           | (1,057)                                | (177)                                         | (435)                                       |

### MODEL DFCV AND OPTIONAL SECTIONS

lbs. (kg)

| SIZE |      | BASIC UNIT<br>(BURNER/<br>BLOWER SEC.) | WEATHER<br>HOUSING | V-BANK SEC.<br>& STAND (W/<br>FILTERS) | RETURN AIR PLENUM<br>(W/ FILTERS & DAMPERS) |
|------|------|----------------------------------------|--------------------|----------------------------------------|---------------------------------------------|
| 127  | lbs. | 2060                                   | 188                | 527                                    | 915                                         |
|      | (kg) | (934)                                  | (85)               | (239)                                  | (415)                                       |
| 130  | lbs. | 2120                                   | 188                | 850                                    | 1110                                        |
|      | (kg) | (962)                                  | (85)               | (386)                                  | (503)                                       |
| 133  | lbs. | 2650                                   | 193                | 920                                    | 1460                                        |
|      | (kg) | (1,202)                                | (88)               | (417)                                  | (662)                                       |
| 136  | lbs. | 3050                                   | 193                | 1024                                   | 1650                                        |
|      | (kg) | (1,383)                                | (88)               | (464)                                  | (748)                                       |
| 218  | lbs. | 2270                                   | 140                | 615                                    | 900                                         |
|      | (kg) | (1,030)                                | (64)               | (279)                                  | (408)                                       |
| 222  | lbs. | 3155                                   | 170                | 810                                    | 1265                                        |
|      | (kg) | (1,431)                                | (77)               | (367)                                  | (574)                                       |
| 227  | lbs. | 4420                                   | 177                | 1220                                   | 1830                                        |
|      | (kg) | (2,005)                                | (80)               | (553)                                  | (830)                                       |
| 230  | lbs. | 4850                                   | 177                | 1505                                   | 2225                                        |
|      | (kg) | (2,200)                                | (80)               | (683)                                  | (1,009)                                     |
| 233  | lbs. | 6100                                   | 200                | 1760                                   | 2675                                        |
|      | (kg) | (2,767)                                | (91)               | (798)                                  | (1,213)                                     |
| 236  | lbs. | 6230                                   | 200                | 1760                                   | 2675                                        |
|      | (kg) | (2,826)                                | (91)               | (798)                                  | (1,213)                                     |

### ACCESSORIES

lbs. (kg)

## TABLES

| SIZE |      | INLET HOOD<br>(W/O FILTERS) | 4 WAY<br>DISCHARGE HEAD | 2 WAY DISCHARGE<br>HEAD | SERVICE<br>PLATFORM |
|------|------|-----------------------------|-------------------------|-------------------------|---------------------|
| 127  | lbs. | 224                         | 136                     | 208                     | 805                 |
|      | (kg) | (102)                       | (62)                    | (94)                    | (365)               |
| 130  | lbs. | 224                         | 136                     | 228                     | 898                 |
|      | (kg) | (102)                       | (62)                    | (103)                   | (407)               |
| 133  | lbs. | 277                         | 250                     | 309                     | 968                 |
|      | (kg) | (126)                       | (113)                   | (140)                   | (439)               |
| 136  | lbs. | 302                         | 250                     | 309                     | 968                 |
|      | (kg) | (137)                       | (113)                   | (140)                   | (439)               |
| 218  | lbs. | 240                         | 123                     | 225                     | 688                 |
|      | (kg) | (109)                       | (56)                    | (102)                   | (312)               |
| 222  | lbs. | 340                         | 300                     | 300                     | 700                 |
|      | (kg) | (154)                       | (136)                   | (136)                   | (318)               |
| 227  | lbs. | 565                         | 280                     | 470                     | 875                 |
|      | (kg) | (256)                       | (127)                   | (213)                   | (397)               |
| 230  | lbs. | 565                         | 270                     | 500                     | 968                 |
|      | (kg) | (256)                       | (122)                   | (227)                   | (439)               |
| 233  | lbs. | 625                         | 430                     | 585                     | 1015                |
|      | (kg) | (284)                       | (195)                   | (265)                   | (460)               |
| 236  | lbs. | 625                         | 430                     | 585                     | 1015                |
|      | (kg) | (284)                       | (195)                   | (265)                   | (460)               |

## AMPERAGE SPECIFICATIONS

| MOTOR<br>HP | RUNNING MOTOR AMPERAGE<br>VOLTAGE/PHASE/CYCLES |          |          |          |          |          |          |
|-------------|------------------------------------------------|----------|----------|----------|----------|----------|----------|
|             | 115/1/60                                       | 230/1/60 | 208/3/60 | 230/3/60 | 416/3/60 | 460/3/60 | 575/3/60 |
| 1/4         | 5.6                                            | 2.8      | N/A      | N/A      | N/A      | N/A      | N/A      |
| 1/3         | 5.8                                            | 2.9      | N/A      | N/A      | N/A      | N/A      | N/A      |
| 1/2         | 8.4                                            | 4.2      | 2.2      | 2        | 1.1      | 1        | 0.8      |
| 3/4         | 12                                             | 6        | 3        | 2.5      | 1.5      | 1.38     | 1.1      |
| 1           | 16                                             | 8        | 3.1      | 3.25     | 1.8      | 1.63     | 1.3      |
| 1 1/2       | 20                                             | 10       | 5.25     | 4.75     | 2.6      | 2.38     | 1.9      |
| 2           | 24                                             | 12       | 6.6      | 6        | 3.3      | 3        | 2.4      |
| 3           | 34                                             | 17       | 9.6      | 8.75     | 4.8      | 4.38     | 3.5      |
| 5           | 56                                             | 28       | 15.1     | 13.75    | 7.6      | 6.88     | 5.5      |
| 7 1/2       | 80                                             | 40       | 24       | 21.75    | 12       | 10.88    | 8.7      |
| 10          | 100                                            | 50       | 28.9     | 26.25    | 14.5     | 13.13    | 10.5     |
| 15          | N/A                                            | N/A      | 44.2     | 40       | 22.1     | 20       | 16       |
| 20          | N/A                                            | N/A      | 58       | 52.5     | 29       | 26.25    | 21       |
| 25          | N/A                                            | N/A      | 74.5     | 67.5     | 37.3     | 33.75    | 27       |
| 30          | N/A                                            | N/A      | 85.6     | 77.5     | 42.8     | 38.75    | 31       |
| 40          | N/A                                            | N/A      | 115.9    | 105      | 58       | 52.5     | 42       |
| 50          | N/A                                            | N/A      | 146.3    | 132.5    | 73       | 66.25    | 53       |
| 60          | N/A                                            | N/A      | 165.6    | 150      | 82.8     | 75       | 60       |
| 75          | N/A                                            | N/A      | 204.4    | 185      | 102.1    | 92.5     | 74       |
| 100         | N/A                                            | N/A      | 270.5    | 245      | 135.2    | 122.5    | 98       |
| 125         | N/A                                            | N/A      | 339.5    | 307      | 169.7    | 153.75   | 123      |

#### NOTES:

- To Calculate the Inrush Motor Amp. Draw = Running Motor Amperage x 2.5
- To Calculate the Full Load Amps (FLA) = 1.25 x Largest Motor Draw + Additional Motor Draw at Face Value + Control Amperage (1.00 Amps Generally Cover 90% of MUA Applications).
- If You Require Specific Control Amperages Please Contact the Factory Representative.

### GENERAL

Supply a Reznor model DFC \_\_\_\_\_ direct-fired makeup air unit designed for outdoor down discharge installation. The unit shall be ETL-C-ETL approved. The unit shall be capable of delivering \_\_\_\_\_ CFM at \_\_\_\_\_ w.c. external static pressure using a \_\_\_\_\_ HP motor ODP motor operating on \_\_\_\_\_ power. The MIDCO line burner shall have a firing rate of \_\_\_\_\_ BTUH input firing on natural gas at a pressure of \_\_\_\_\_ w.c. to provide a \_\_\_\_\_ deg. F temperature rise with a 30:1 turndown from full burner capacity.

### CABINET

Unit construction shall be heavy gauge galvanealed steel finished with enamel paint. The unit design shall incorporate a full base pan supported by an integral channel iron base. All structural iron supports shall be primed with rust inhibitor. To ensure the casing is airtight and weatherproof, all panels are to be caulked and roof panels shall overlap. Access doors are to have full-length hinges, liners, rain troughs and positive seal latches. The standard unit construction shall include 1" (2") thick 1 - 1/2 lb. density insulation glued and pin spotted. Unit shall be complete with optional 22 gauge internal liner throughout unit.

### BLOWER/MOTOR

Unit shall be supplied with a single (dual) AMCA-rated centrifugal forward curved DWDI statically and dynamically balanced blower. The fan shall be mounted on a heavy-duty machined and polished shaft. The shaft maximum operating speed is not to exceed 75% of its first critical speed. The T-frame motor shall be mounted on a fully adjustable base. The blower is to be driven with a fixed 1.25 s.f. V-belt drive package. Unit shall have hinged doors to provide easy access to maintain and inspect motor, belts and bearings. Unit shall be complete with optional internal spring vibration isolation. Unit shall be complete with optional extended grease lines.

### BURNER

Each unit shall be equipped with a wide range fully modulating direct-fired burner capable of up to 30:1 turn-down. The burner shall have stainless steel combustion baffles, non-clogging gas ports, spark-ignition intermittent pilot and flame safeguard system. Burner combustion must be clean and odourless. Combustion efficiency must limit the products of combustion to a maximum of 5 ppm carbon monoxide and 0.5 ppm nitrogen dioxide. The burner profile is to be equipped with adjustable profile plates. An observation port shall provide a full view of the flame. Hinged access doors are to be provided to allow easy maintenance and inspection for burner, igniter and flame rod.

### CONTROLS

Unit control enclosure to have hinged access. Terminal strip, wiring and components shall be numbered and labeled.

The control for the heater shall include:

- blower motor starter w/ambient compensated overloads and auxiliary contacts
- primary to 120v control transformer
- 6000 volt ignition transformer
- control circuit breaker and service switch
- manual reset temperature high limit
- solid state flame safeguard relay w/LED status and flame rod
- discharge temperature control sensor w/RTS
- All wiring external to control enclosure shall be run in conduit.

The gas manifold shall include:

- main gas pressure regulator
- manual shutoff & test firing valve
- main gas automatic shutoff valve
- auxiliary main gas automatic shutoff valve
- MAXITROL modulating control system
- pilot pressure regulator
- pilot automatic shutoff valve
- pilot needle valve
- multiple test ports

Outdoor units shall have hinged doors to provide easy access to maintain and inspect valves and controls.

Unit shall be complete with supervisory remote control panel. This panel shall included two switches, five lights including loaded filter light, and remote temperature selector, and LED discharge temperature readout. 80/20 Option

### FILTERS

Unit shall be complete with filter section w/2" 30% efficient filters.

### CERTIFICATION

Unit shall be certified to ETL Standards ANSI Z83.18a-2001 / ANSI Z83.4B-2002 or ETL Standard CSA 3.7B-2002.

## REZNOR® PRODUCT LIMITED WARRANTY

Reznor, LLC warrants to the original owner-user that this Reznor product will be free from defects in material or workmanship. This warranty is limited to twelve (12) months from the date of original installation, whether or not actual use begins on that date, or eighteen (18) months from date of shipment by Reznor, LLC, whichever occurs first.

### LIMITATIONS AND EXCLUSIONS

Reznor, LLC obligations under this warranty and the sole remedy for its breach are limited to repair, at its manufacturing facility, of any part or parts of its Reznor products which prove to be defective; or, in its sole discretion, replacement of such products. All returns of defective parts or products must include the product model number and serial number, and must be made through an authorized Reznor distributor or arranged through Reznor Customer Service. Authorized returns must be shipped prepaid. Repaired or replacement parts will be shipped by Reznor, LLC F.O.B. shipping point.

1. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, installation, service or handling of parts or complete products.
2. All claims under the warranty provided herein must be made within ninety (90) days from the date of discovery of the defect. Failure to notify Reznor, LLC of a warranted defect within ninety (90) days of its discovery voids Reznor, LLC obligations hereunder.
3. The warranty provided herein shall be void and of no effect in the event that (a) the product has been operated outside its designed output capacity (heating, cooling, airflow); (b) the product has been subjected to misuse, neglect, accident, improper or inadequate maintenance, corrosive environments, environments containing airborne contaminants (silicone, aluminum oxide, etc.), or excessive thermal shock; (c) unauthorized modifications are made to the product; (d) the product is not installed or operated in compliance with the manufacturer's printed instructions; (e) the product is not installed and operated in compliance with applicable building, mechanical, plumbing and electrical codes; or (f) the serial number of the product has been altered, defaced or removed (g) installation and start-up procedures are not documented on the manufacturer's start-up form at the time of installation.
4. The warranty provided herein is for repair or replacement only. Reznor, LLC shall not be liable for any loss, cost, damage, or expense of any kind arising out of a breach of the warranty. Further, Reznor, LLC shall not be liable for any incidental, consequential, exemplary, special, or punitive damages, nor for any loss of revenue, profit or use, arising out of a breach of this warranty or in connection with the sale, maintenance, use, operation or repair of any Reznor product. In no event will Reznor, LLC be liable for any amount greater than the purchase price of a defective product. The disclaimers of liability included in this paragraph 4 shall remain in effect and shall continue to be enforceable in the event that any remedy herein shall fail of its essential purpose.
5. THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR REZNOR PRODUCTS, AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES. REZNOR, LLC SPECIFICALLY DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. No person or entity is authorized to bind Reznor, LLC to any other warranty, obligation or liability for any Reznor product. Installation, operation or use of the Reznor product for which this warranty is issued shall constitute acceptance of the terms hereof.



**Reznor® is your global source for heating,  
ventilating and air conditioning equipment.**



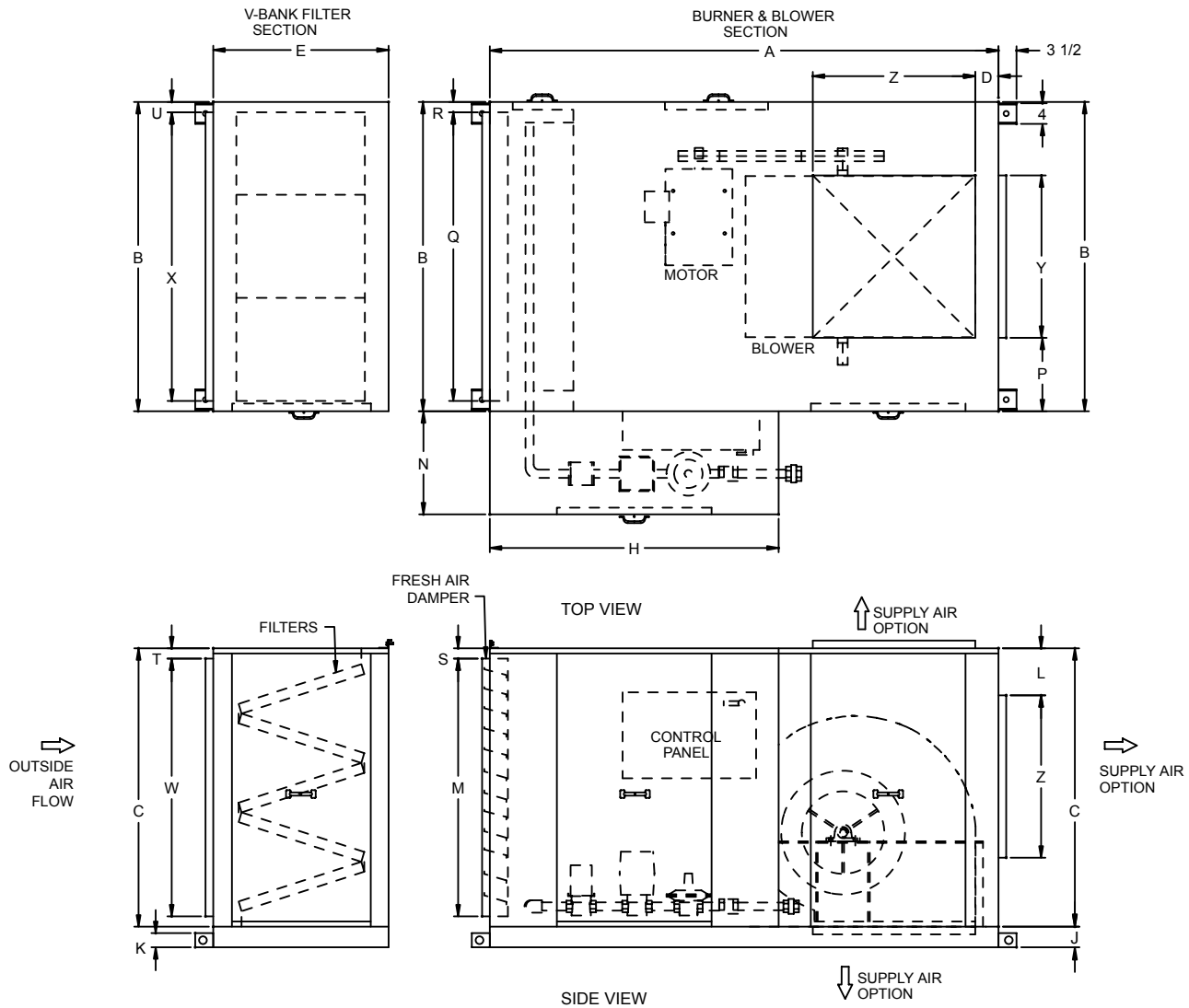
# REZNOR®

**For more information on Reznor HVAC Equipment,  
contact your local Reznor Representative by calling 800-695-1901.  
Or, find us on the internet at [www.RezSpec.com](http://www.RezSpec.com)**

# REZNOR®

MORE DIMENSION DRAWINGS

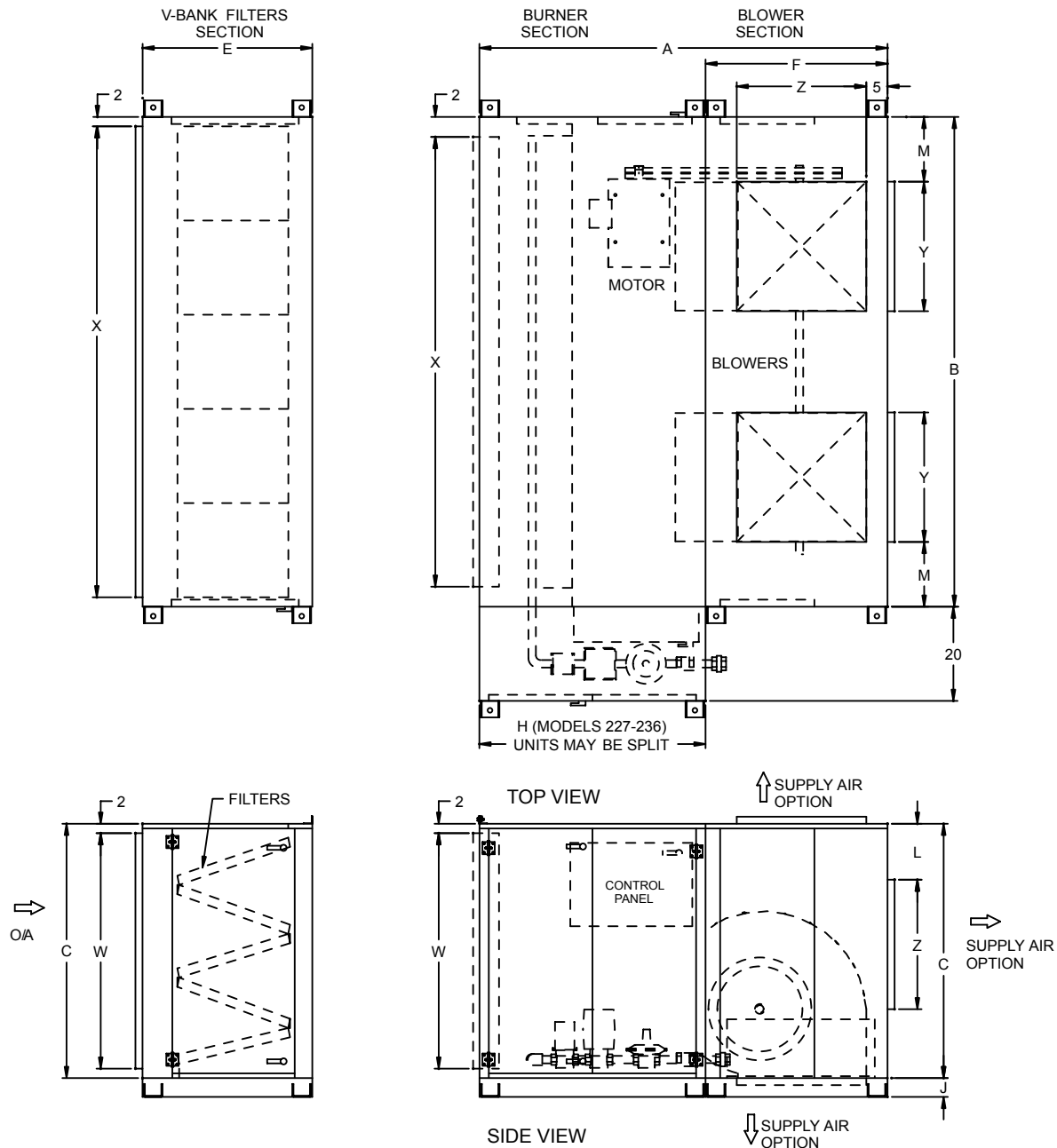
Model DFCH, Single Blower unit with V-Bank Filter Section.



| MODEL | A       | B  | C  | D | E  | H  | J | K     | L      | M  | N  | P      | Q  | R | S | T | U | W  | X  | Y      | Z       |
|-------|---------|----|----|---|----|----|---|-------|--------|----|----|--------|----|---|---|---|---|----|----|--------|---------|
| 127   | 104-5/8 | 66 | 60 | 5 | 34 | 58 | 4 | 2-3/4 | 10-3/8 | 56 | 20 | 15-3/4 | 62 | 2 | 2 | 2 | 2 | 56 | 62 | 34-1/2 | 34-1/2  |
| 130   | 104-5/8 | 66 | 60 | 5 | 50 | 58 | 4 | 2-3/4 | 6-3/8  | 56 | 20 | 14-1/2 | 62 | 2 | 2 | 2 | 2 | 56 | 62 | 37     | 37      |
| 133   | 116-5/8 | 74 | 66 | 5 | 50 | 58 | 4 | 2-3/4 | 8-1/8  | 62 | 20 | 17     | 70 | 2 | 2 | 2 | 2 | 62 | 70 | 40     | 43-3/16 |
| 136   | 116-5/8 | 88 | 66 | 5 | 50 | 58 | 4 | 2-3/4 | 8-1/8  | 62 | 20 | 22-1/2 | 84 | 2 | 2 | 2 | 2 | 62 | 84 | 43     | 43-3/16 |

- NOTE:
- 1. 1 1/2" INLET AND DISCHARGE FLANGES
  - 2. LEFT-HAND UNIT SHOWN
  - 3. MODEL DFCH 136 BURNER/BLOWER SECTION MAY BE SPLIT FOR SHIPPING AND FIELD INSTALLATION BY OTHERS.
  - 4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.



| MODEL | A       | B   | C  | E  | F      | H  | J | L      | N  | P      | W  | X   | Y      | Z       |
|-------|---------|-----|----|----|--------|----|---|--------|----|--------|----|-----|--------|---------|
| 218   | 84-5/8  | 87  | 40 | 34 | -      | 58 | 4 | 8      | 20 | 12-1/2 | 36 | 83  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 34 | 38-5/8 | 58 | 4 | 11-7/8 | 20 | 13-3/4 | 50 | 100 | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 34 | 58-5/8 | 58 | 6 | 7-7/8  | 20 | 19     | 56 | 130 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 50 | 58-5/8 | 58 | 6 | 3-7/8  | 20 | 15     | 56 | 130 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 50 | 66-5/8 | 58 | 6 | 5-5/8  | 20 | 21-5/8 | 62 | 152 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 50 | 66-5/8 | 58 | 6 | 5-5/8  | 20 | 17     | 62 | 152 | 43     | 43-3/16 |

NOTE:

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. THE FILTER SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

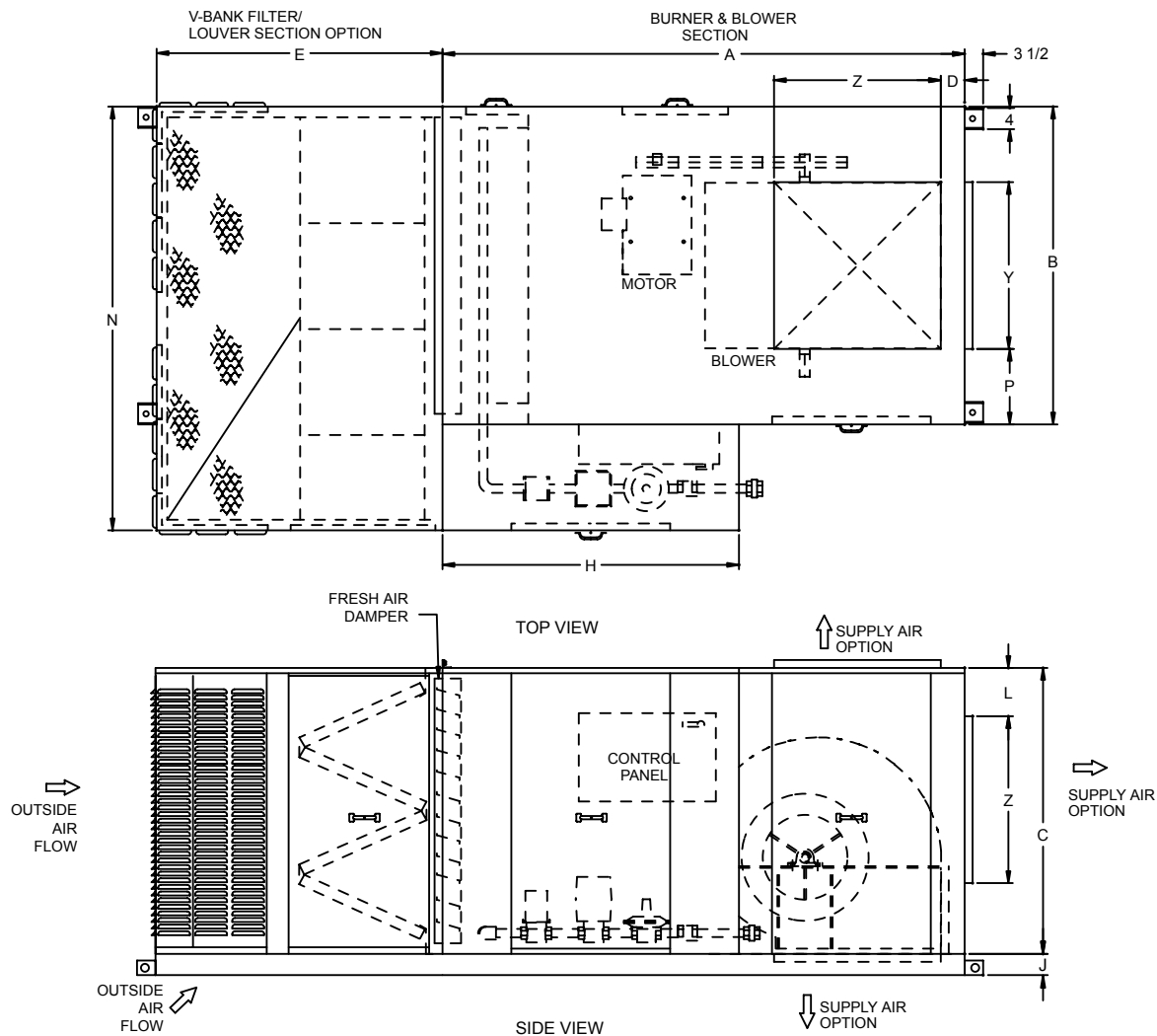
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.
5. OUTDOOR UNITS ARE COMPLET WITH A SLOPED ROOF, SLOPES AWAY FROM WEATHERHOUSING.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCH, Single Blower unit with Louvered Inlet Section with Filtrils



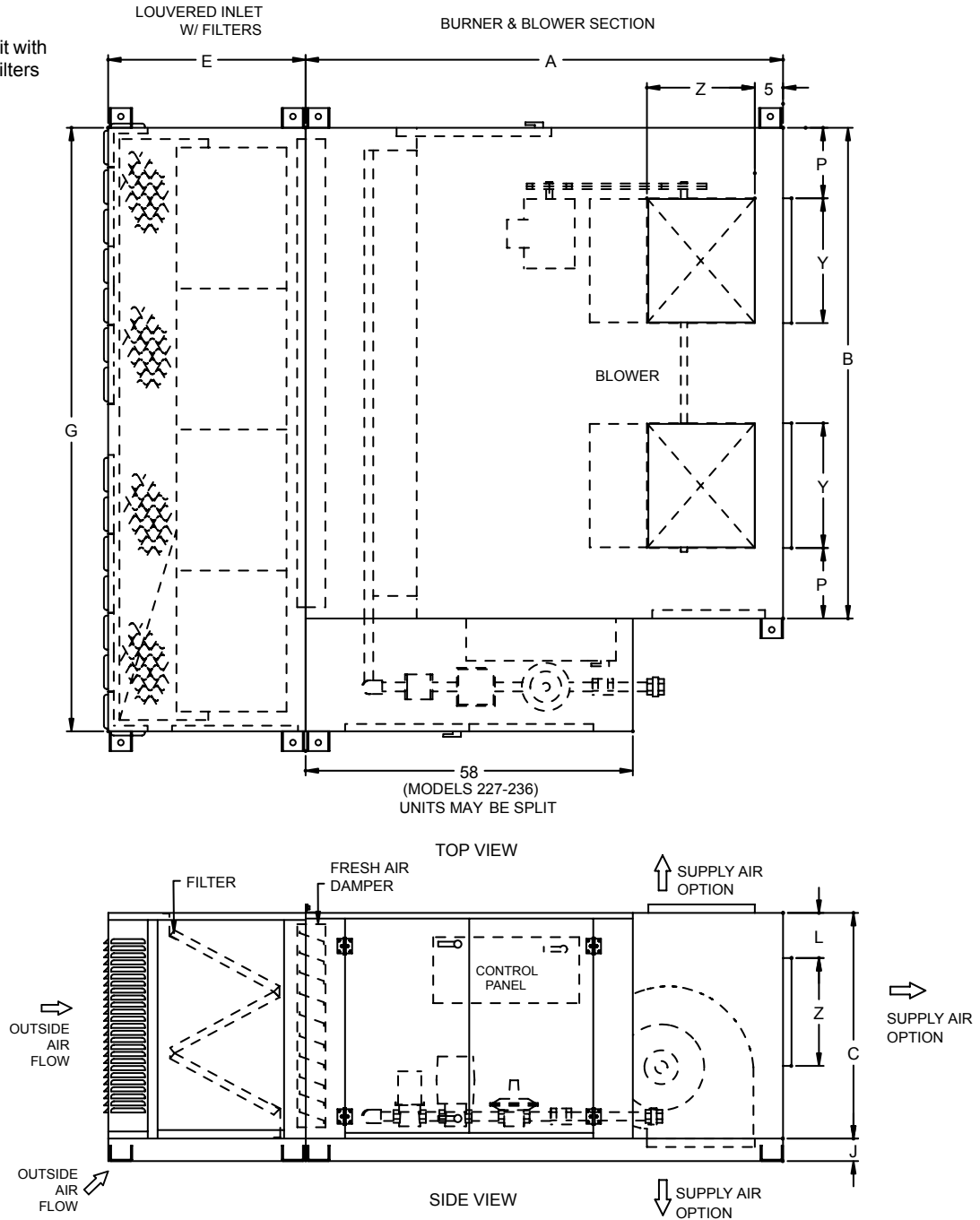
| MODEL | A       | B  | C  | D | E  | H  | J | L      | N   | P      | Y      | Z       |
|-------|---------|----|----|---|----|----|---|--------|-----|--------|--------|---------|
| 127   | 104-5/8 | 66 | 60 | 5 | 54 | 58 | 4 | 10-3/8 | 86  | 15-3/4 | 34-1/2 | 34-1/2  |
| 130   | 104-5/8 | 66 | 60 | 5 | 68 | 58 | 4 | 6-3/8  | 86  | 14-1/2 | 37     | 37      |
| 133   | 116-5/8 | 74 | 66 | 5 | 68 | 58 | 4 | 8-1/8  | 94  | 17     | 40     | 43-3/16 |
| 136   | 116-5/8 | 88 | 66 | 5 | 83 | 58 | 4 | 8-1/8  | 108 | 22-1/2 | 43     | 43-3/16 |

### NOTE:

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- MODEL DFCH136 BURNER/BLOWER/LOUVER SECTION MAY BE SPLIT FOR SHIPPING AND FIELD INSTALLED BY OTHERS.
- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED.  
RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.

Model DFCH, Dual Blower unit with  
Louvered Inlet Section with Filters



| MODEL | A       | B   | C  | E  | F      | G   | H  | J | L      | N  | P      | W  | X   | Y      | Z       |
|-------|---------|-----|----|----|--------|-----|----|---|--------|----|--------|----|-----|--------|---------|
| 218   | 84-5/8  | 87  | 40 | 34 | -      | 107 | 58 | 4 | 8      | 20 | 12-1/2 | 36 | 83  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 34 | 38-5/8 | 124 | 58 | 4 | 11-7/8 | 20 | 13-3/4 | 50 | 100 | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 34 | 58-5/8 | 154 | 58 | 6 | 7-7/8  | 20 | 19     | 56 | 130 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 50 | 58-5/8 | 154 | 58 | 6 | 3-7/8  | 20 | 15     | 56 | 130 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 50 | 66-5/8 | 176 | 58 | 6 | 5-5/8  | 20 | 21-5/8 | 62 | 152 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 50 | 66-5/8 | 176 | 58 | 6 | 5-5/8  | 20 | 17     | 62 | 152 | 43     | 43-3/16 |

NOTE:

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. THE FILTER SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

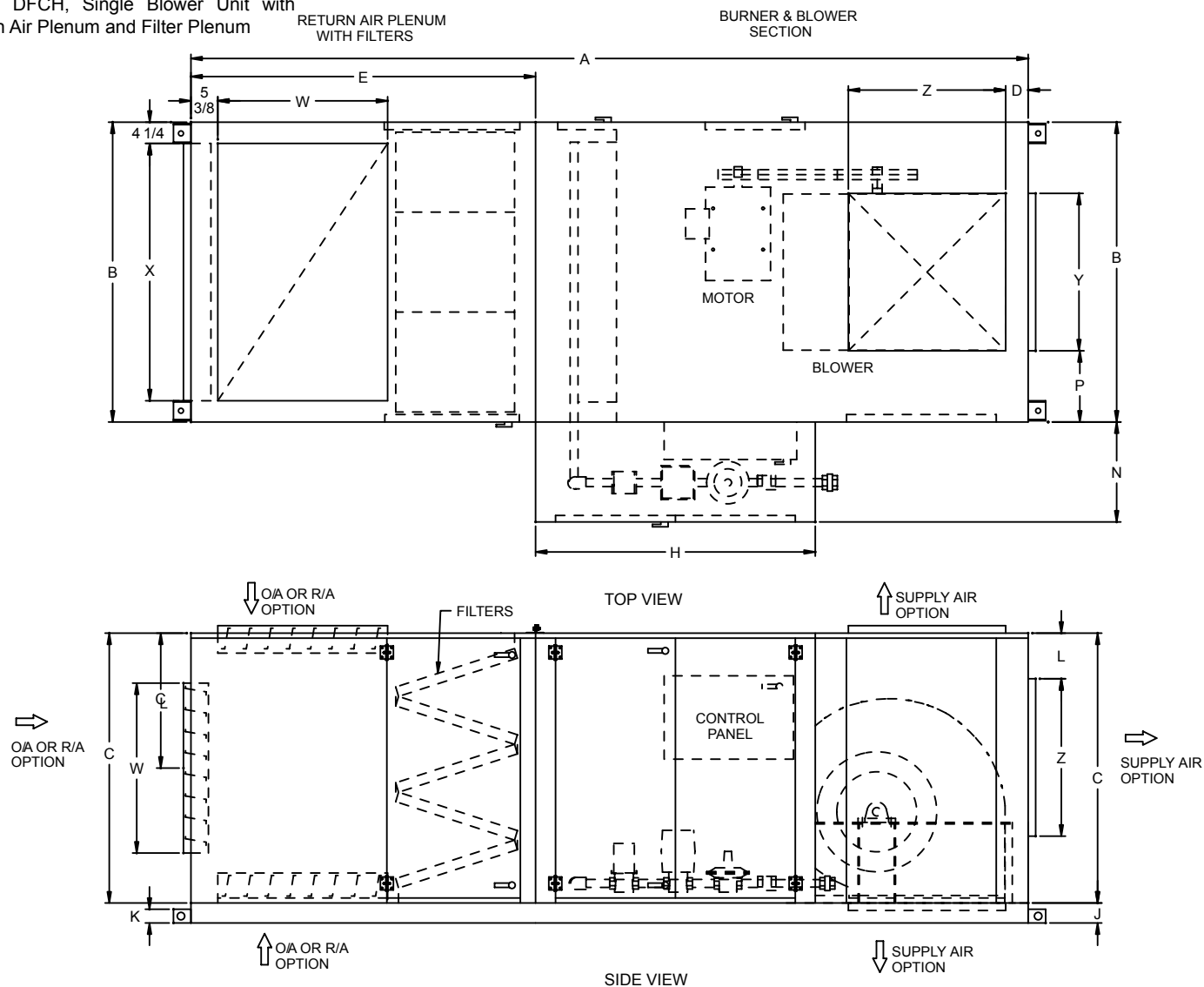
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.
5. OUTDOOR UNITS ARE COMPLETE WITH A SLOPED ROOF, SLOPES AWAY FROM WEATHERHOUSING.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCH, Single Blower Unit with  
Return Air Plenum and Filter Plenum



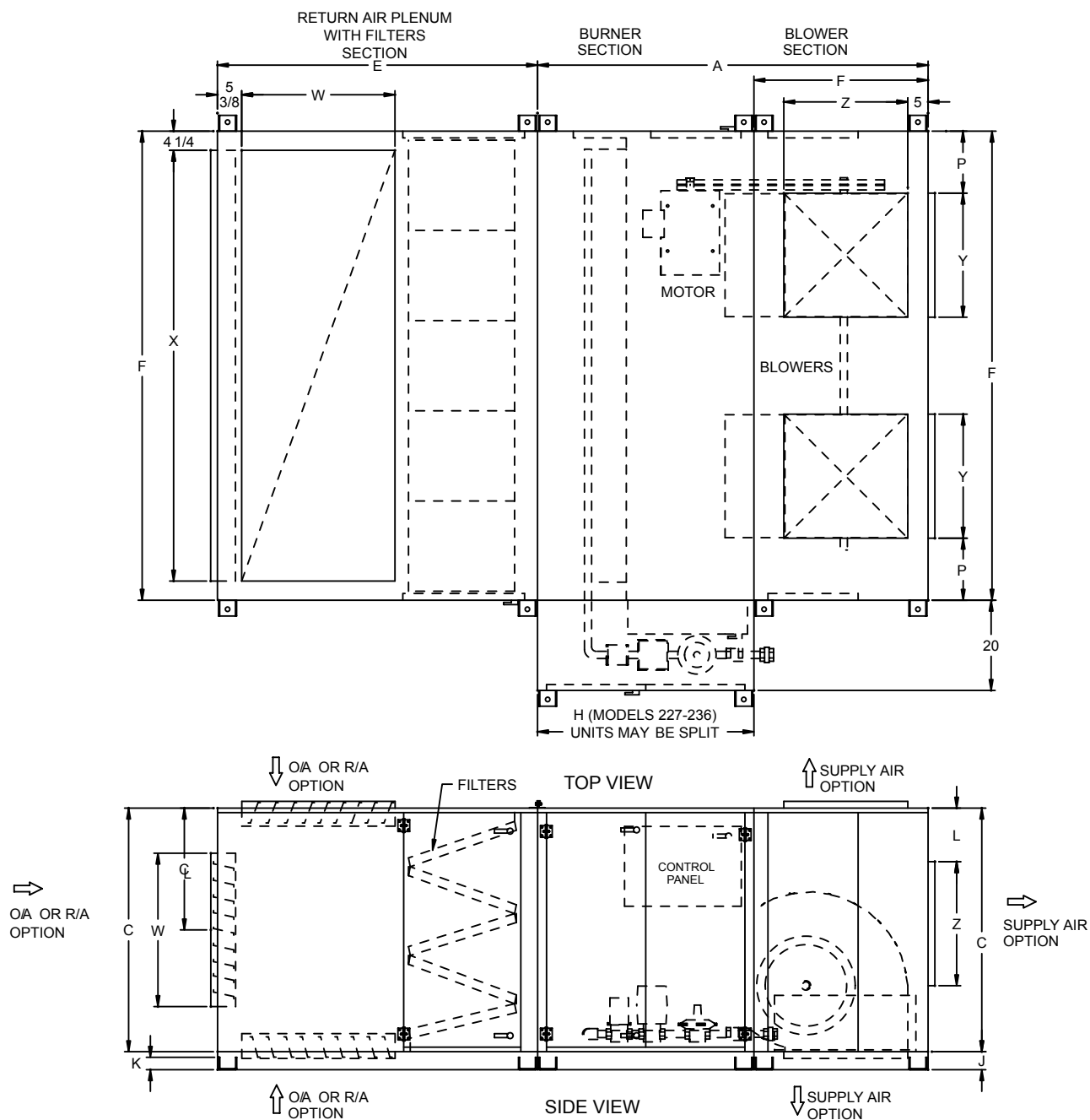
| MODEL | A       | B  | C  | D | E   | H  | J | K     | L      | N  | P      | W  | X      | Y      | Z       |
|-------|---------|----|----|---|-----|----|---|-------|--------|----|--------|----|--------|--------|---------|
| 127   | 173-5/8 | 66 | 60 | 5 | 69  | 58 | 4 | 2-3/4 | 10-3/8 | 20 | 15-3/4 | 34 | 57-1/2 | 34-1/2 | 34-1/2  |
| 130   | 204-5/8 | 66 | 60 | 5 | 100 | 58 | 4 | 2-3/4 | 6-3/8  | 20 | 14-1/2 | 48 | 57-1/2 | 37     | 37      |
| 133   | 219-5/8 | 74 | 66 | 5 | 103 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 17     | 48 | 65-1/2 | 40     | 43-3/16 |
| 136   | 216-5/8 | 88 | 66 | 5 | 100 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 22-1/2 | 48 | 79-1/2 | 43     | 43-3/16 |

### NOTE:

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. MODEL DFCH136 BURNER/BLOWER SECTION MAY BE SPLIT FOR SHIPPING AND FIELD INSTALLED BY OTHERS.
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.

Model DFCH, Dual Blower Unit with  
Return Air Plenum and Filter Plenum



| MODEL | A       | B   | C  | E   | F      | H  | J | K     | L      | N  | P      | W  | X   | Y      | Z       |
|-------|---------|-----|----|-----|--------|----|---|-------|--------|----|--------|----|-----|--------|---------|
| 218   | 84-5/8  | 87  | 40 | 65  | -      | 58 | 4 |       | 8      | 20 | 12-1/2 | 36 | 83  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 65  | 38-5/8 | 58 | 4 | 2-3/4 | 11-7/8 | 20 | 13-3/4 | 50 | 100 | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 71  | 58-5/8 | 58 | 6 | 3-1/4 | 7-7/8  | 20 | 19     | 56 | 130 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 100 | 58-5/8 | 58 | 6 | 3-1/4 | 3-7/8  | 20 | 15     | 56 | 130 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 100 | 66-5/8 | 58 | 6 | 3-1/4 | 5-5/8  | 20 | 21-5/8 | 62 | 152 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 100 | 66-5/8 | 58 | 6 | 3-1/4 | 5-5/8  | 20 | 17     | 62 | 152 | 43     | 43-3/16 |

NOTE:

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. THE RETURN AIR PLENUM SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

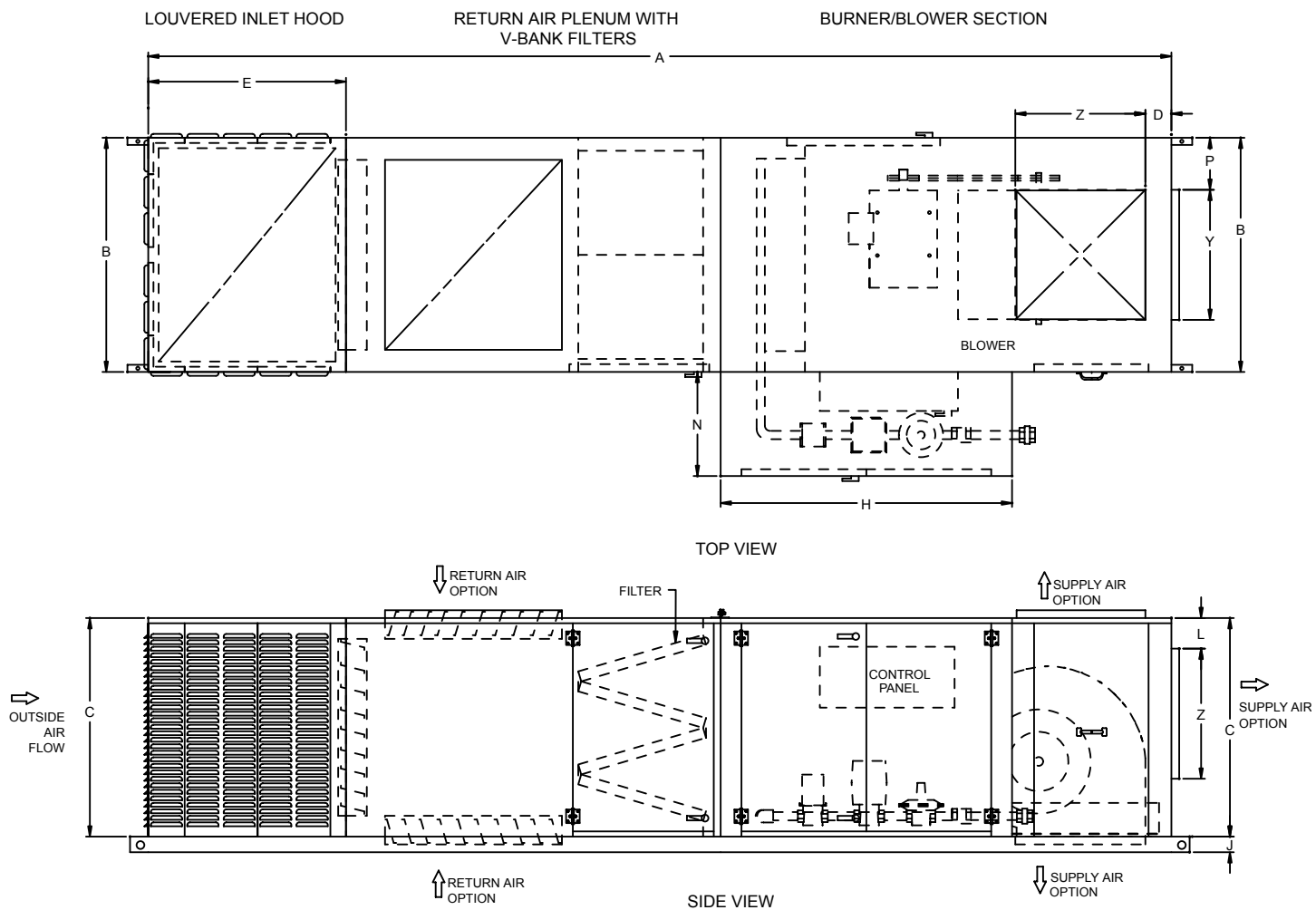
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.
5. OUTDOOR UNITS ARE COMPLETE WITH A SLOPED ROOF, SLOPES AWAY FROM WEATHERHOUSING.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCH, Single Blower Unit with Louvered Inlet, with Return Air Plenum and Filter Plenum



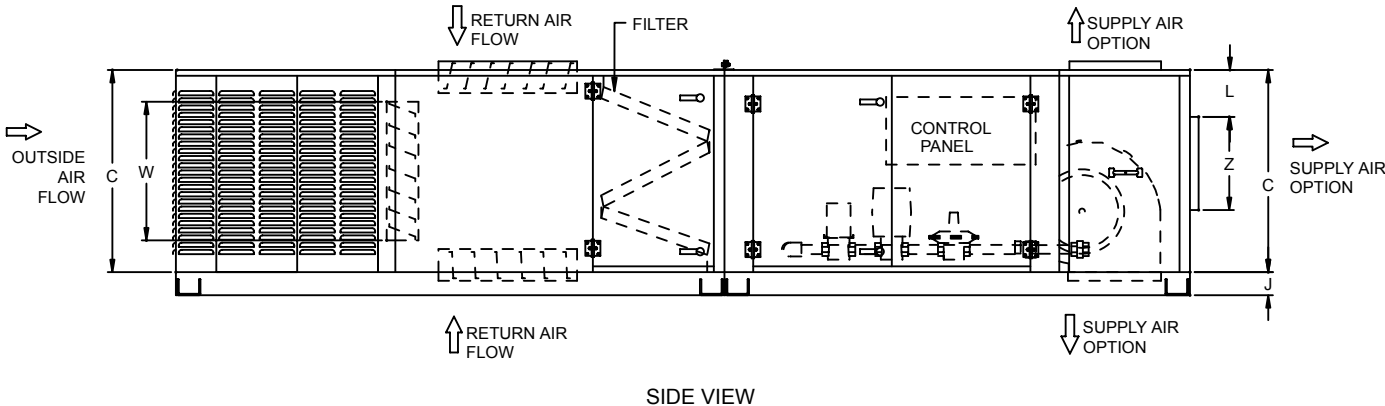
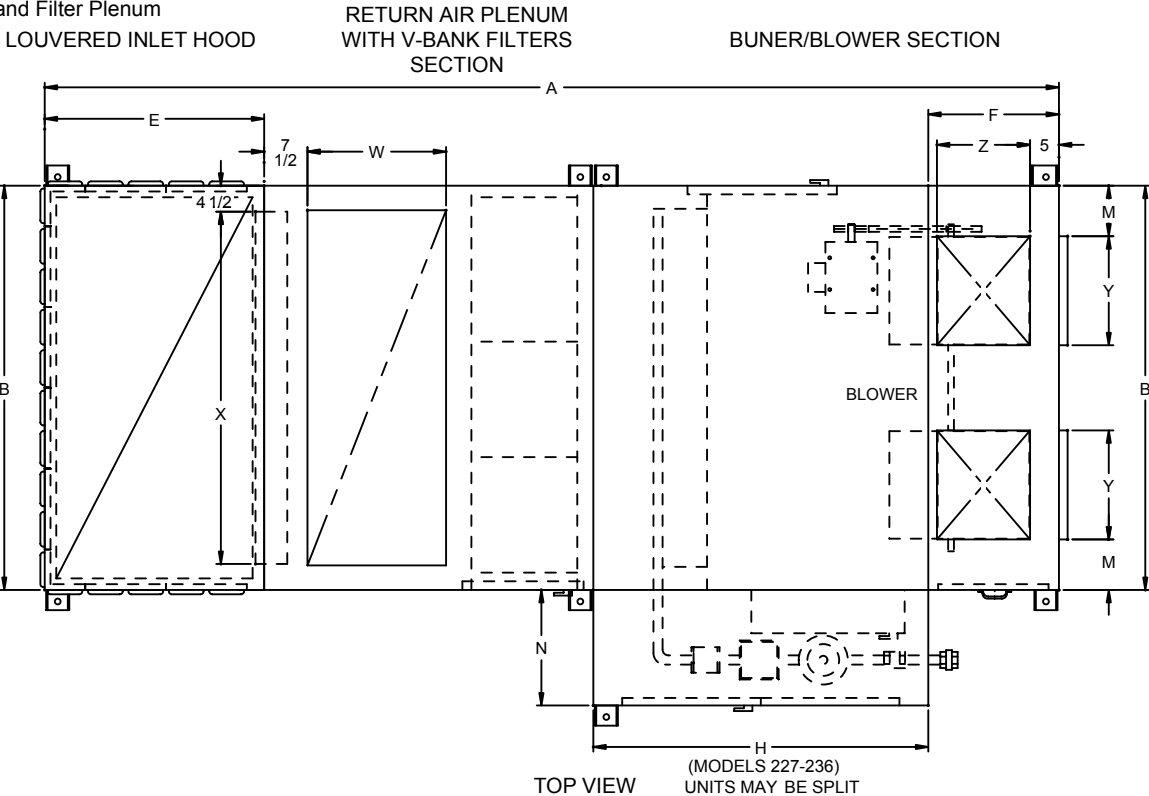
| MODEL | A       | B  | C  | D | E  | H  | J | K     | L      | N  | P      | W  | X      | Y      | Z       |
|-------|---------|----|----|---|----|----|---|-------|--------|----|--------|----|--------|--------|---------|
| 127   | 225-5/8 | 66 | 60 | 5 | 52 | 58 | 4 | 2-3/4 | 10-3/8 | 20 | 15-3/4 | 34 | 57-1/2 | 34-1/2 | 34-1/2  |
| 130   | 256-5/8 | 66 | 60 | 5 | 52 | 58 | 4 | 2-3/4 | 6-3/8  | 20 | 14-1/2 | 48 | 57-1/2 | 37     | 37      |
| 133   | 271-5/8 | 74 | 66 | 5 | 52 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 17     | 48 | 65-1/2 | 40     | 43-3/16 |
| 136   | 268-5/8 | 88 | 66 | 5 | 52 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 22-1/2 | 48 | 79-1/2 | 43     | 43-3/16 |

**NOTE:**

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- MODEL DFCH136 BURNER/BLOWER SECTION MAY BE SPLIT FOR SHIPPING AND FIELD INSTALLED BY OTHERS.
- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.

Model DFCH, Dual Blower Unit with Louvered Inlet, with  
Return Air Plenum and Filter Plenum



| MODEL | A       | B   | C  | E   | F      | H  | J | L      | N  | P      | W  | X   | Y      | Z       |
|-------|---------|-----|----|-----|--------|----|---|--------|----|--------|----|-----|--------|---------|
| 218   | 193-5/8 | 87  | 40 | 38  | -      | 58 | 4 | 8      | 20 | 12-1/2 | 36 | 83  | 22-1/8 | 19-1/8  |
| 222   | 195-5/8 | 104 | 54 | 38  | 38-5/8 | 58 | 4 | 11-7/8 | 20 | 13-3/4 | 50 | 100 | 27-1/2 | 27-1/2  |
| 227   | 253-5/8 | 134 | 60 | 66  | 58-5/8 | 58 | 6 | 7-7/8  | 20 | 19     | 56 | 130 | 34-1/2 | 34-1/2  |
| 230   | 310-5/8 | 134 | 60 | 94  | 58-5/8 | 58 | 6 | 3-7/8  | 20 | 15     | 56 | 130 | 37     | 37      |
| 233   | 318-5/8 | 156 | 66 | 94  | 66-5/8 | 58 | 6 | 5-5/8  | 20 | 21-5/8 | 62 | 152 | 40     | 43-3/16 |
| 236   | 332-5/8 | 156 | 66 | 108 | 66-5/8 | 58 | 6 | 5-5/8  | 20 | 17     | 62 | 152 | 43     | 43-3/16 |

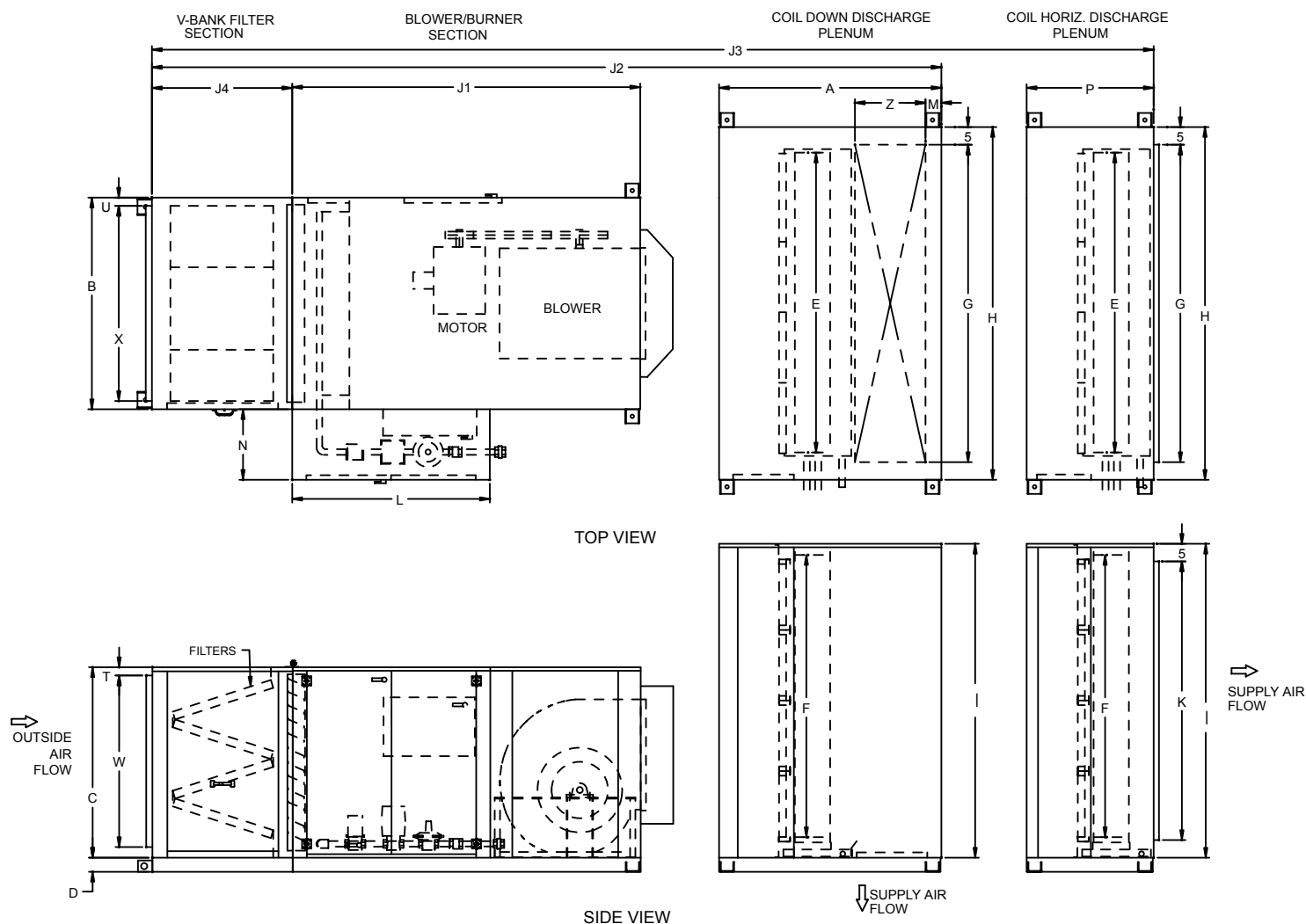
- NOTE:
- 1 1/2" INLET AND DISCHARGE FLANGES
  - LEFT-HAND UNIT SHOWN
  - THE RETURN AIR PLENUM SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.
  - SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.
  - OUTDOOR UNITS ARE COMPLET WITH A SLOPED ROOF, SLOPES AWAY FROM WEATHERHOUSING.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCH, Single Blower Unit with Down Discharge or Horizontal Discharge Cooling Coil Cabinet



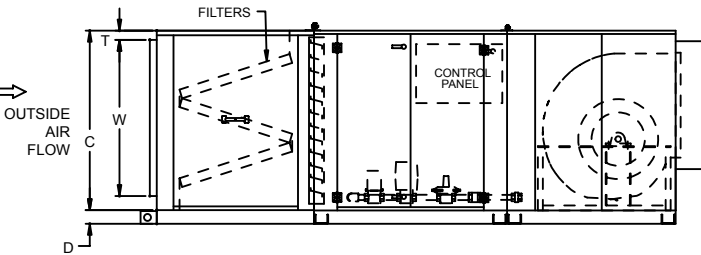
| MODEL | A   | B  | C  | D | E   | F   | G   | H   | I   | J1      | J2      | J3      | J4 | K   | L  | M     | N  | P  | T | U | W  | X  | Z  |
|-------|-----|----|----|---|-----|-----|-----|-----|-----|---------|---------|---------|----|-----|----|-------|----|----|---|---|----|----|----|
| 127   | 95  | 66 | 60 | 4 | 90  | 85  | 95  | 105 | 94  | 104-5/8 | 233 5/8 | 199 5/8 | 34 | 84  | 58 | 4-1/2 | 20 | 61 | 2 | 2 | 56 | 62 | 28 |
| 130   | 102 | 66 | 60 | 4 | 100 | 96  | 105 | 115 | 105 | 104-5/8 | 256 5/8 | 220 5/8 | 50 | 95  | 58 | 4-1/2 | 20 | 66 | 2 | 2 | 56 | 62 | 32 |
| 133   | 102 | 74 | 66 | 4 | 110 | 100 | 115 | 125 | 109 | 116-5/8 | 268 5/8 | 232 5/8 | 50 | 99  | 58 | 4-1/2 | 20 | 66 | 2 | 2 | 62 | 70 | 33 |
| 136   | 115 | 88 | 66 | 4 | 126 | 110 | 131 | 141 | 119 | 116-5/8 | 281 5/8 | 237 5/8 | 50 | 109 | 58 | 4-1/2 | 20 | 71 | 2 | 2 | 62 | 84 | 37 |

### NOTE:

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- DEPENDING ON THE COIL TYPE AND SIZE, THE COIL PLENUMS CAN BE DECREASED IN SIZE.
- THE COIL DISCHARGE PLENUMS WILL BE SHIPPED SEPARATELY AND FIELD INSTALLATION BY OTHERS.
- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.

Model DFCH, Dual Blower Unit with Down Discharge or Horizontal Discharge Cooling Coil Cabinet

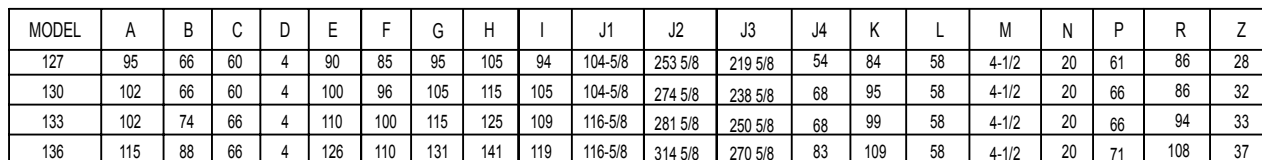


| MODEL | A   | B   | C  | D | E   | F   | G   | H   | I   | J1      | J2      | J3      | J4 | K   | M     | P  | T | U | W  | X   | Z  |
|-------|-----|-----|----|---|-----|-----|-----|-----|-----|---------|---------|---------|----|-----|-------|----|---|---|----|-----|----|
| 218   | 74  | 87  | 40 | 4 | 98  | 56  | 103 | 113 | 65  | 84-5/8  | 192-5/8 | 168-5/8 | 34 | 55  | 4-1/2 | 50 | 2 | 2 | 36 | 83  | 19 |
| 222   | 87  | 104 | 54 | 4 | 115 | 69  | 120 | 130 | 78  | 86-5/8  | 207-5/8 | 180-5/8 | 34 | 68  | 4-1/2 | 60 | 2 | 2 | 50 | 100 | 25 |
| 227   | 106 | 134 | 60 | 6 | 164 | 94  | 169 | 179 | 103 | 116-5/8 | 256-5/8 | 220-5/8 | 34 | 93  | 6     | 70 | 2 | 2 | 56 | 130 | 31 |
| 230   | 122 | 134 | 60 | 6 | 178 | 110 | 183 | 193 | 119 | 116-5/8 | 288-5/8 | 246-5/8 | 50 | 109 | 6     | 80 | 2 | 2 | 56 | 130 | 37 |
| 233   | 123 | 156 | 66 | 6 | 199 | 113 | 204 | 214 | 122 | 124-5/8 | 297-5/8 | 254-5/8 | 50 | 112 | 6     | 80 | 2 | 2 | 62 | 152 | 38 |
| 236   | 136 | 156 | 66 | 6 | 207 | 122 | 212 | 222 | 131 | 124-5/8 | 310-5/8 | 264-5/8 | 50 | 121 | 6     | 90 | 2 | 2 | 62 | 152 | 41 |

4. THE COIL DISCHARGE PLENUMS WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.
5. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

Form RZ-S-DFC Page 38

Model DFCH, Single Blower Unit with Louvered Inlet Section with Filters and Down Discharge or Horizontal Discharge Cooling Coil Cabinet



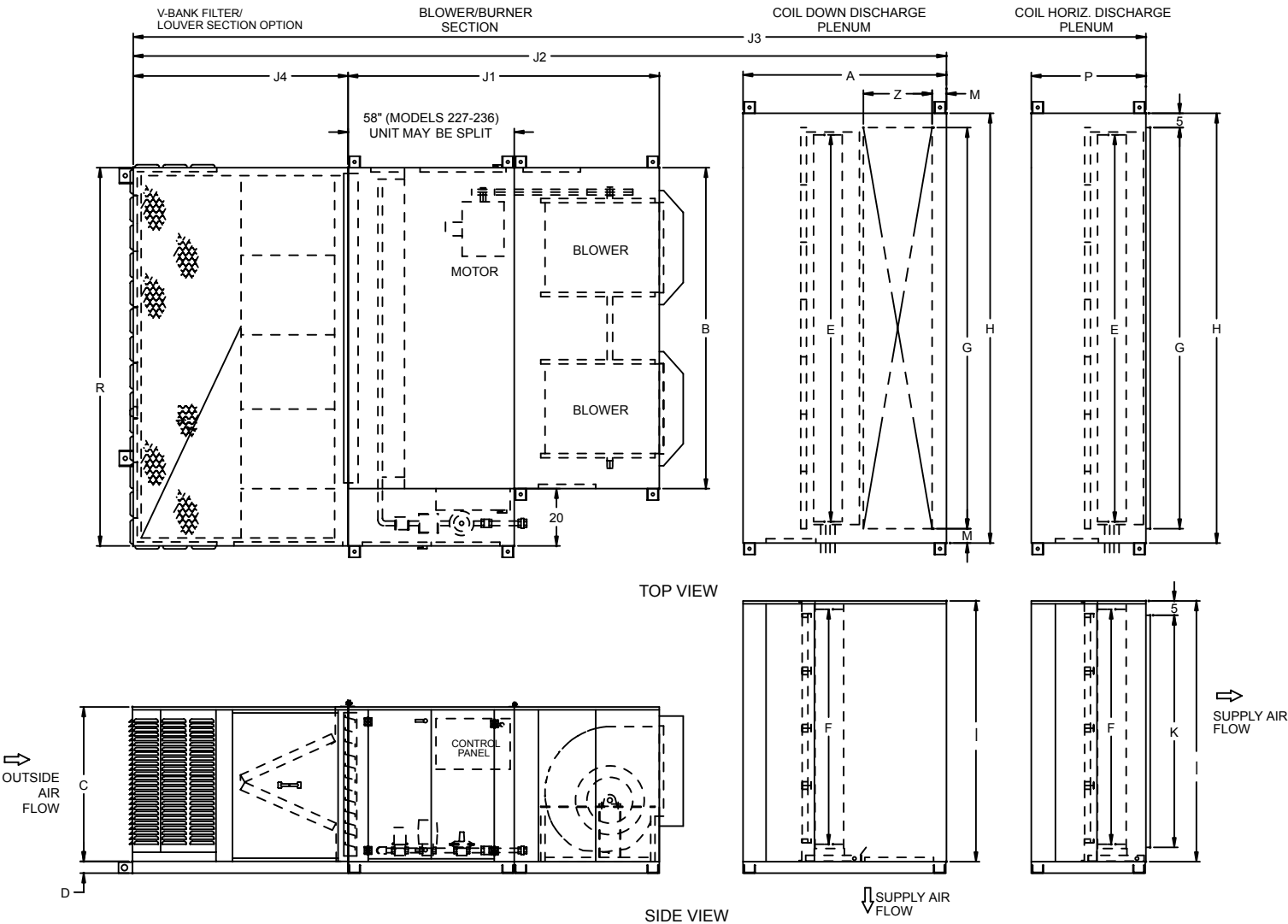
4. THE COIL DISCHARGE PLENUMS WILL BE SHIPPED SEPARATELY AND FIELD INSTALLATION BY OTHERS.

5. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

Form RZ-S-DFC Page 39

MORE DIMENSION DRAWINGS (cont'd)

Model DFCH, Dual Blower Unit with Louvered Inlet Section with Filters and Down Discharge or Horizontal Discharge Cooling Coil Cabinet



| MODEL | A   | B   | C  | D | E   | F   | G   | H   | I   | J1      | J2      | J3      | J4 | K   | M     | P  | R   | Z  |
|-------|-----|-----|----|---|-----|-----|-----|-----|-----|---------|---------|---------|----|-----|-------|----|-----|----|
| 218   | 74  | 87  | 40 | 4 | 98  | 56  | 103 | 113 | 65  | 84-5/8  | 193-5/8 | 169-5/8 | 35 | 55  | 4-1/2 | 50 | 107 | 19 |
| 222   | 87  | 104 | 54 | 4 | 115 | 69  | 120 | 130 | 78  | 86-5/8  | 208-5/8 | 181-5/8 | 35 | 68  | 4-1/2 | 60 | 124 | 25 |
| 227   | 106 | 134 | 60 | 6 | 164 | 94  | 169 | 179 | 103 | 116-5/8 | 287-5/8 | 251-5/8 | 65 | 93  | 6     | 70 | 154 | 31 |
| 230   | 122 | 134 | 60 | 6 | 178 | 110 | 183 | 193 | 119 | 116-5/8 | 332-5/8 | 290-5/8 | 94 | 109 | 6     | 80 | 154 | 37 |
| 233   | 123 | 156 | 66 | 6 | 199 | 113 | 204 | 214 | 122 | 124-5/8 | 344-5/8 | 301-5/8 | 97 | 112 | 6     | 80 | 176 | 38 |
| 236   | 136 | 156 | 66 | 6 | 207 | 122 | 212 | 222 | 131 | 124-5/8 | 357-5/8 | 311-5/8 | 97 | 121 | 6     | 90 | 176 | 41 |

- NOTE:

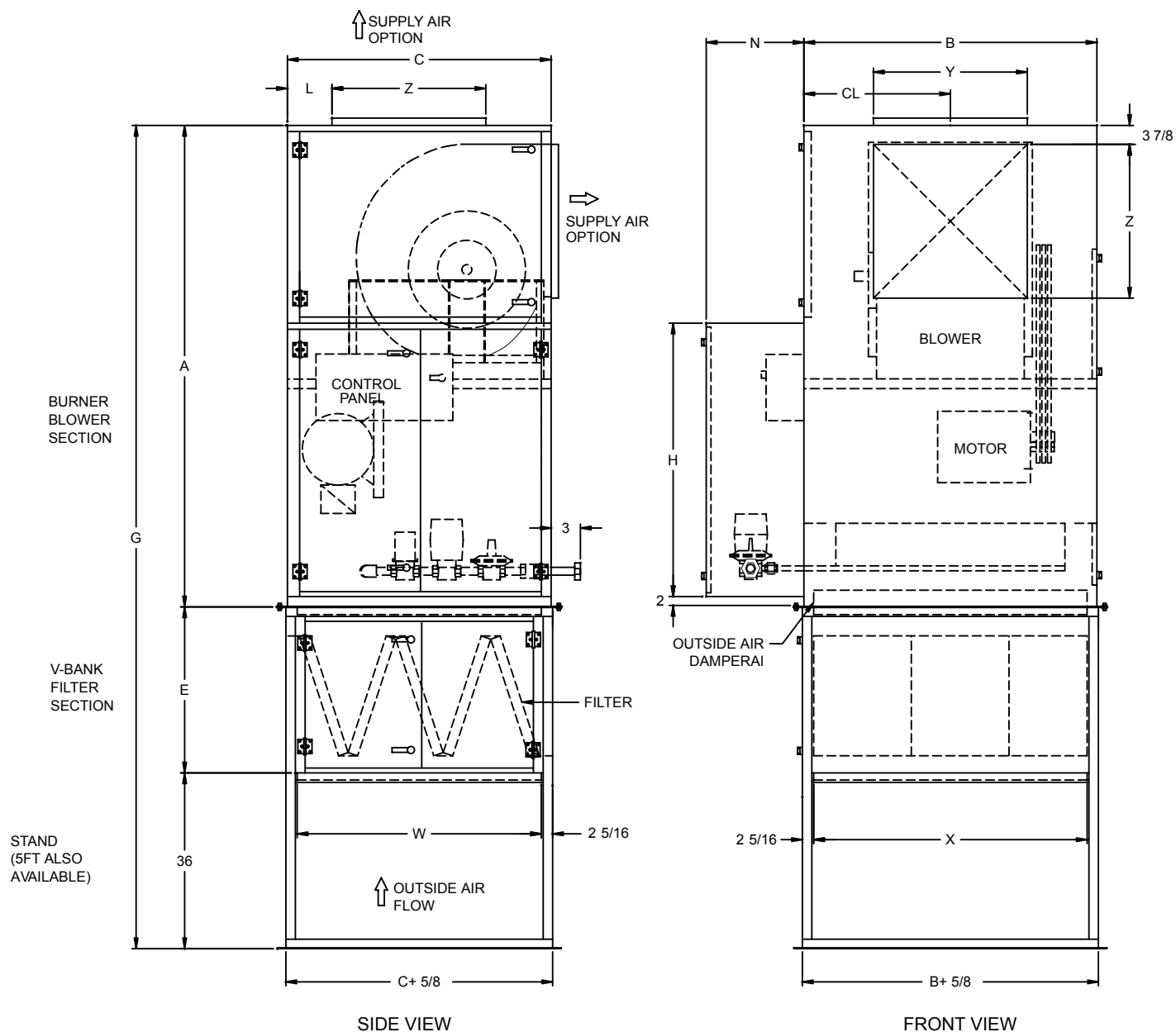
  - 1 1/2" INLET AND DISCHARGE FLANGES
  - LEFT-HAND UNIT SHOWN
  - DEPENDING ON THE COIL TYPE AND SIZE, THE COIL PLENUMS CAN BE DECREASED IN SIZE.
- THE COIL DISCHARGE PLENUMS WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.
  - SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCV, Single Blower Unit with V-Bank Filter Section and Mounting Stand

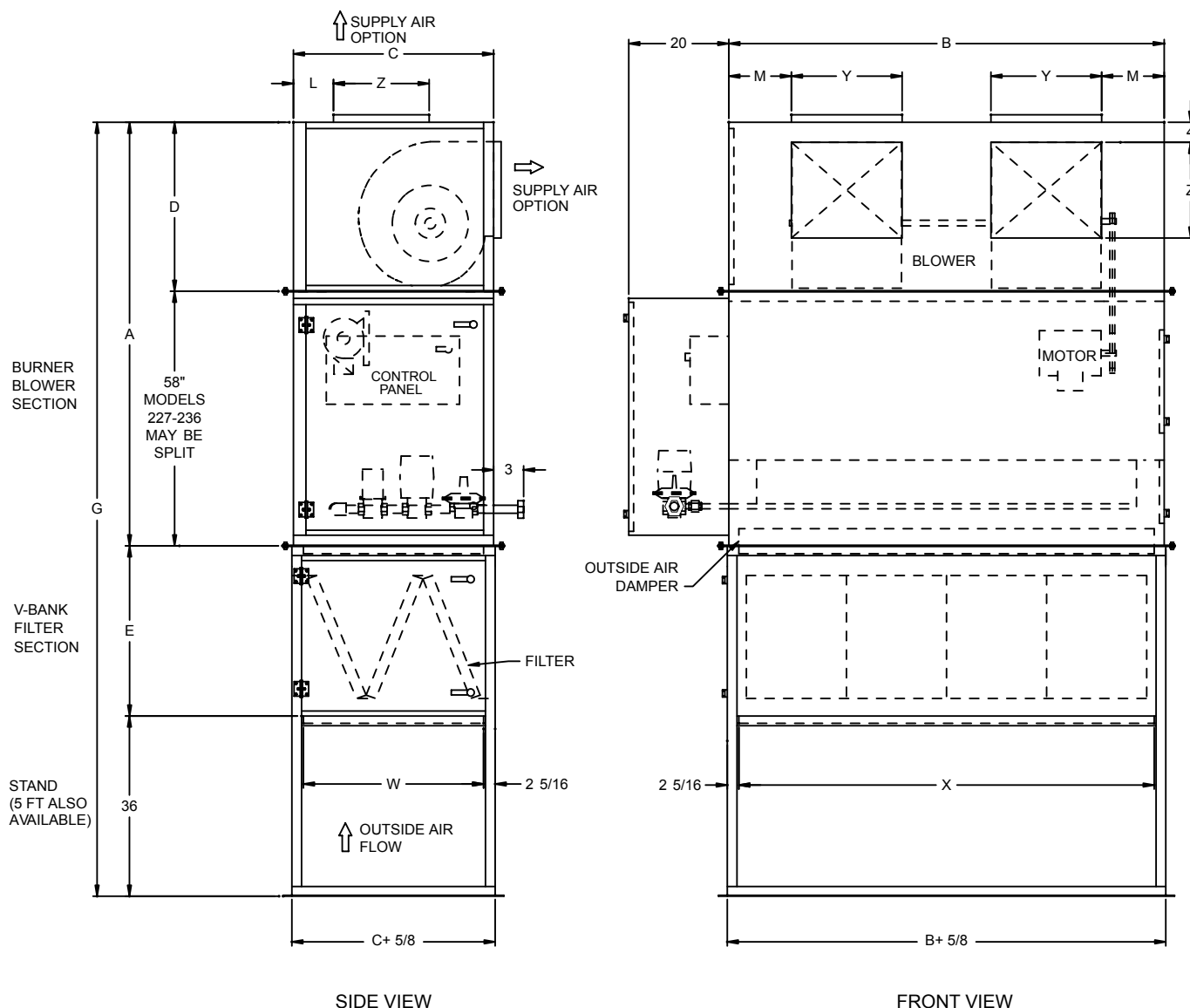


| MODEL | A       | B  | C  | E  | G       | H  | L      | N  | W  | X  | Y      | Z       |
|-------|---------|----|----|----|---------|----|--------|----|----|----|--------|---------|
| 127   | 104-5/8 | 66 | 60 | 34 | 174-5/8 | 58 | 10-3/8 | 20 | 56 | 62 | 34-1/2 | 34-1/2  |
| 130   | 104-5/8 | 66 | 60 | 50 | 190-5/8 | 58 | 6-3/8  | 20 | 56 | 62 | 37     | 37      |
| 133   | 116-5/8 | 74 | 66 | 50 | 202-5/8 | 58 | 8-1/8  | 20 | 62 | 70 | 40     | 43-3/16 |
| 136   | 116-5/8 | 88 | 66 | 50 | 202-5/8 | 58 | 8-1/8  | 20 | 62 | 84 | 43     | 43-3/16 |

### NOTE:

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- THE V-BANK FILTER SECTION AND STAND WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.
- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.



| MODEL | A       | B   | C  | D      | E  | G       | L      | M      | W  | X   | Y      | Z       |
|-------|---------|-----|----|--------|----|---------|--------|--------|----|-----|--------|---------|
| 218   | 84-5/8  | 87  | 40 | -      | 34 | 154-5/8 | 8      | 12-1/2 | 36 | 83  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 38-5/8 | 34 | 156-5/8 | 11-7/8 | 13-3/4 | 50 | 100 | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 58-5/8 | 34 | 186-5/8 | 7-7/8  | 19     | 56 | 130 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 58-5/8 | 50 | 202-5/8 | 3-7/8  | 15     | 56 | 130 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 66-5/8 | 50 | 210-5/8 | 5-5/8  | 21-5/8 | 62 | 152 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 66-5/8 | 50 | 210-5/8 | 5-5/8  | 17     | 62 | 152 | 43     | 43-3/16 |

NOTE:

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- THE V-BANK FILTER SECTION AND STAND WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

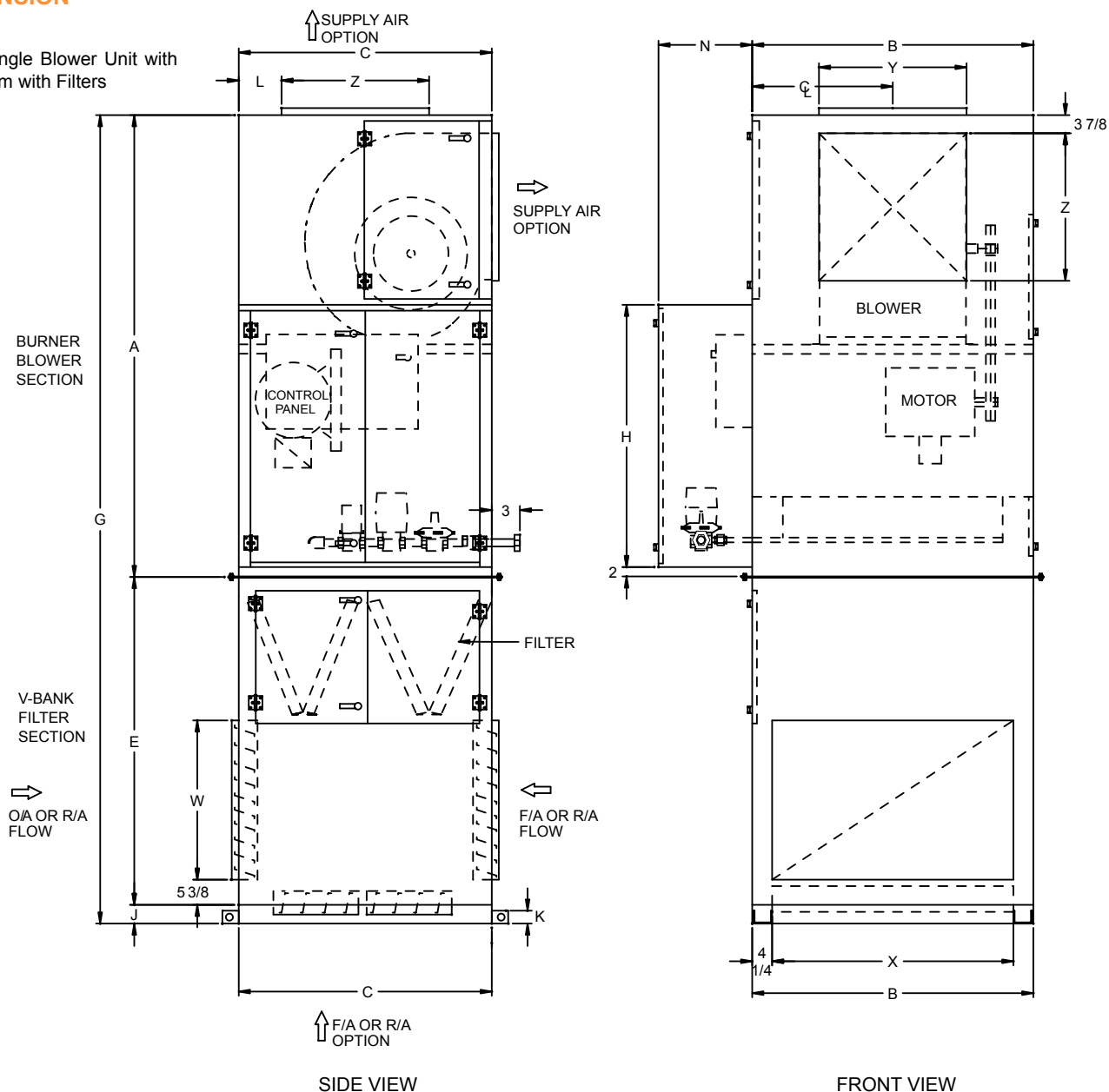
- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCV, Single Blower Unit with  
Return Air Plenum with Filters



| MODEL | A       | B  | C  | E  | G       | H  | J | K     | L      | N  | W  | X      | Y      | Z       |
|-------|---------|----|----|----|---------|----|---|-------|--------|----|----|--------|--------|---------|
| 127   | 104-5/8 | 66 | 60 | 70 | 178-5/8 | 58 | 4 | 2-3/4 | 10-3/8 | 20 | 34 | 57-1/2 | 34-1/2 | 34-1/2  |
| 130   | 104-5/8 | 66 | 60 | 99 | 208-5/8 | 58 | 4 | 2-3/4 | 6-3/8  | 20 | 48 | 57-1/2 | 37     | 37      |
| 133   | 116-5/8 | 74 | 66 | 99 | 219-5/8 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 48 | 65-1/2 | 40     | 43-3/16 |
| 136   | 116-5/8 | 88 | 66 | 99 | 219-5/8 | 58 | 4 | 2-3/4 | 8-1/8  | 20 | 48 | 79-1/2 | 43     | 43-3/16 |

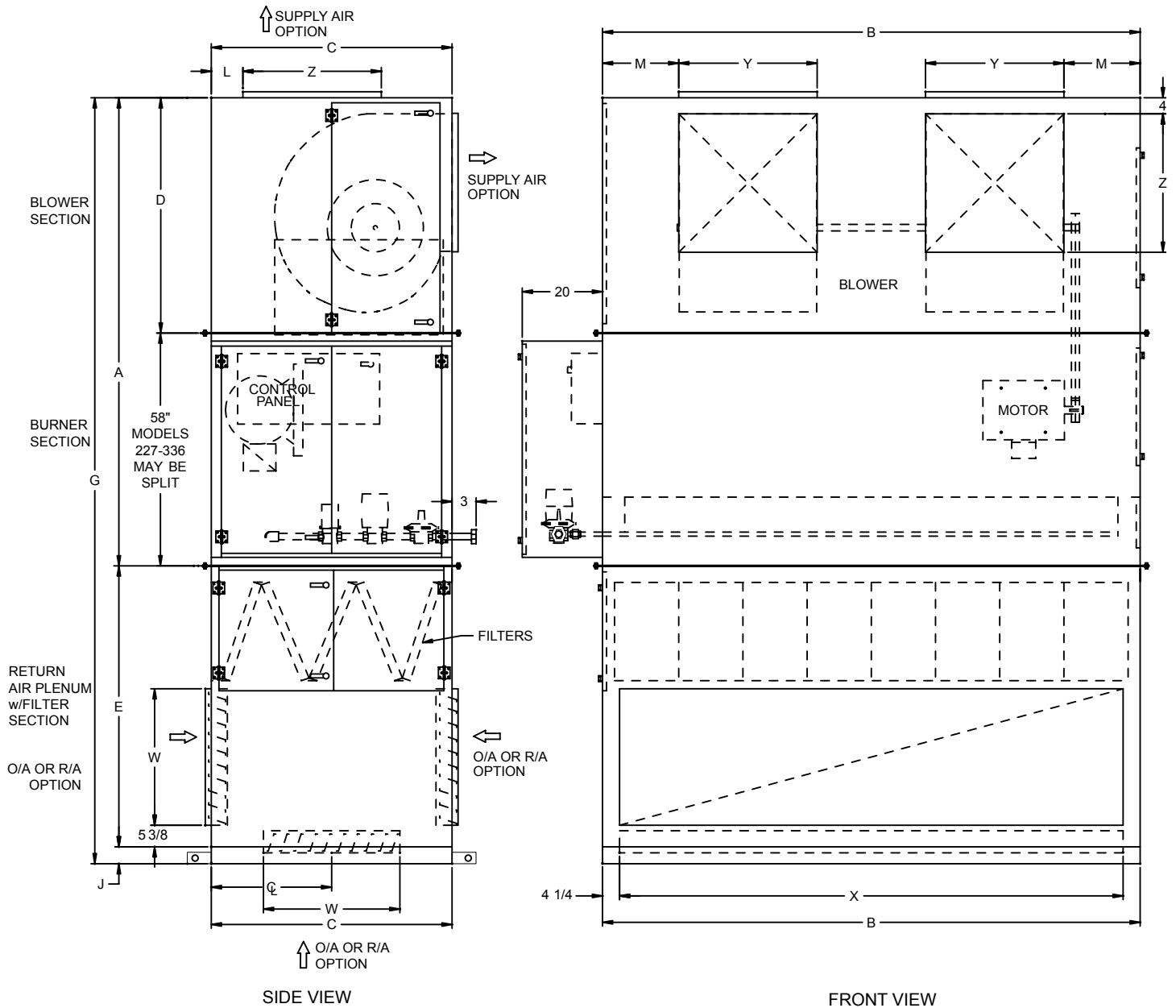
**NOTE:**

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. THE RETURN AIR PLENUM w/FILTER WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

## MORE DIMENSION DRAWINGS (cont'd)

Model DFCV, Dual Blower Unit with Return Air Plenum with Filters



| MODEL | A       | B   | C  | D      | E  | G       | J | L      | M      | W  | X       | Y      | Z       |
|-------|---------|-----|----|--------|----|---------|---|--------|--------|----|---------|--------|---------|
| 218   | 84-5/8  | 87  | 40 | -      | 70 | 157-5/8 | 4 | 8      | 12-1/2 | 34 | 78-1/2  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 38-5/8 | 70 | 160-5/8 | 4 | 11-7/8 | 13-3/4 | 34 | 95-1/2  | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 58-5/8 | 70 | 192-5/8 | 6 | 7-7/8  | 19     | 34 | 125-1/2 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 58-5/8 | 99 | 221-5/8 | 6 | 3-7/8  | 15     | 48 | 125-1/2 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 66-5/8 | 99 | 229-5/8 | 6 | 5-5/8  | 21-5/8 | 48 | 147-1/2 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 66-5/8 | 99 | 229-5/8 | 6 | 5-5/8  | 17     | 48 | 147-1/2 | 43     | 43-3/16 |

**NOTE:**

1. 1 1/2" INLET AND DISCHARGE FLANGES
2. LEFT-HAND UNIT SHOWN
3. THE RETURN AIR PLENUM SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

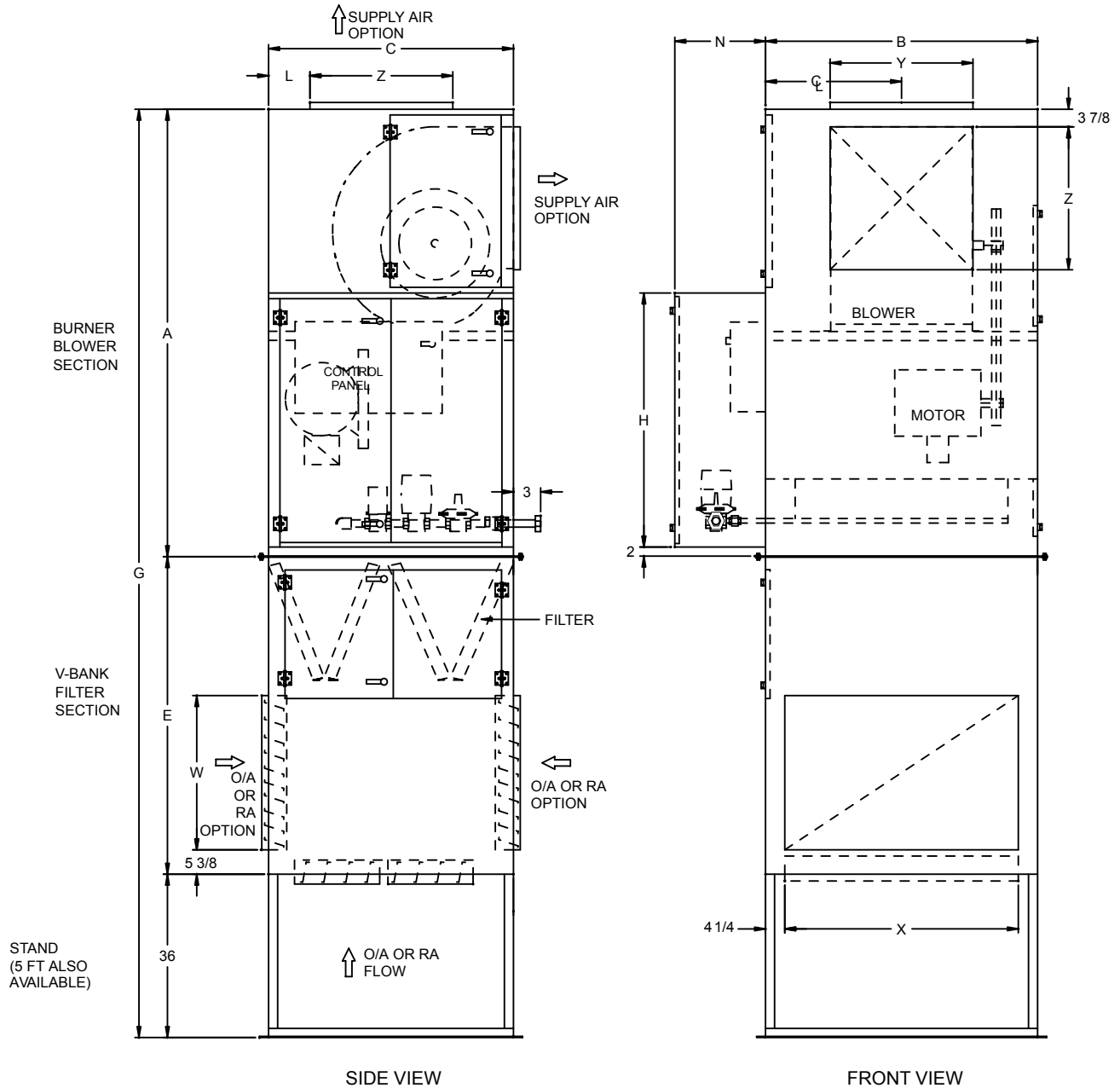
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

# REZNOR®

## MORE DIMENSION DRAWINGS

Model DFCV, Single Blower Unit with Return Air Plenum  
with Filters and Mounting Stand



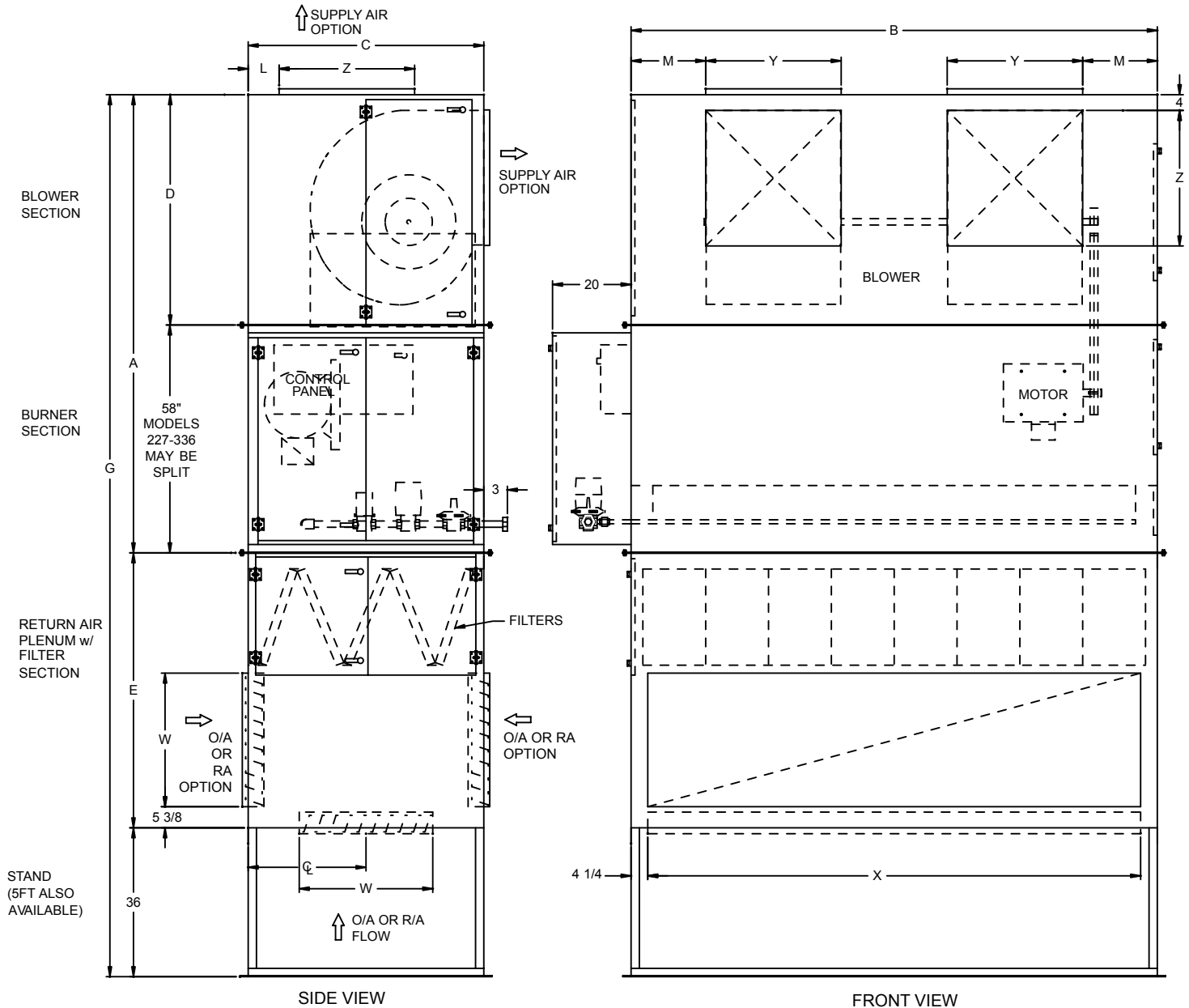
| MODEL | A       | B  | C  | E  | G       | H  | J | L      | N  | W  | X      | Y      | Z       |
|-------|---------|----|----|----|---------|----|---|--------|----|----|--------|--------|---------|
| 127   | 104-5/8 | 66 | 60 | 70 | 210-5/8 | 58 | 4 | 10-3/8 | 20 | 34 | 57-1/2 | 34-1/2 | 34-1/2  |
| 130   | 104-5/8 | 66 | 60 | 99 | 239-5/8 | 58 | 4 | 6-3/8  | 20 | 48 | 57-1/2 | 37     | 37      |
| 133   | 116-5/8 | 74 | 66 | 99 | 251-5/8 | 58 | 4 | 8-1/8  | 20 | 48 | 65-1/2 | 40     | 43-3/16 |
| 136   | 116-5/8 | 88 | 66 | 99 | 251-5/8 | 58 | 4 | 8-1/8  | 20 | 48 | 79-1/2 | 43     | 43-3/16 |

NOTE:  
1. 1 1/2" INLET AND DISCHARGE FLANGES  
2. LEFT-HAND UNIT SHOWN  
3. THE RETURN AIR PLENUM w/FILTER WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.  
4. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.

## MORE DIMENSION DRAWINGS (cont'd)

Model DFCV, Dual Blower Unit with Return Air Plenum  
with Filters and Mounting Stand



| MODEL | A       | B   | C  | D      | E  | G       | J | L      | M      | W  | X       | Y      | Z       |
|-------|---------|-----|----|--------|----|---------|---|--------|--------|----|---------|--------|---------|
| 218   | 84-5/8  | 87  | 40 | -      | 70 | 190-5/8 | 4 | 8      | 12-1/2 | 34 | 78-1/2  | 22-1/8 | 19-1/8  |
| 222   | 86-5/8  | 104 | 54 | 38-5/8 | 70 | 192-5/8 | 4 | 11-7/8 | 13-3/4 | 34 | 95-1/2  | 27-1/2 | 27-1/2  |
| 227   | 116-5/8 | 134 | 60 | 58-5/8 | 70 | 222-5/8 | 6 | 7-7/8  | 19     | 34 | 125-1/2 | 34-1/2 | 34-1/2  |
| 230   | 116-5/8 | 134 | 60 | 58-5/8 | 99 | 251-5/8 | 6 | 3-7/8  | 15     | 48 | 125-1/2 | 37     | 37      |
| 233   | 124-5/8 | 156 | 66 | 66-5/8 | 99 | 259-5/8 | 6 | 5-5/8  | 21-5/8 | 48 | 147-1/2 | 40     | 43-3/16 |
| 236   | 124-5/8 | 156 | 66 | 66-5/8 | 99 | 259-5/8 | 6 | 5-5/8  | 17     | 48 | 147-1/2 | 43     | 43-3/16 |

### NOTE:

- 1 1/2" INLET AND DISCHARGE FLANGES
- LEFT-HAND UNIT SHOWN
- THE RETURN AIR PLENUM SECTION WILL BE SHIPPED SEPARATELY AND FIELD INSTALLED BY OTHERS.

- SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED. RECOMMENDED CLEARANCE 36 INCHES.

FOR REFERENCE USE ONLY SUBJECT TO CHANGE WITHOUT NOTICE.