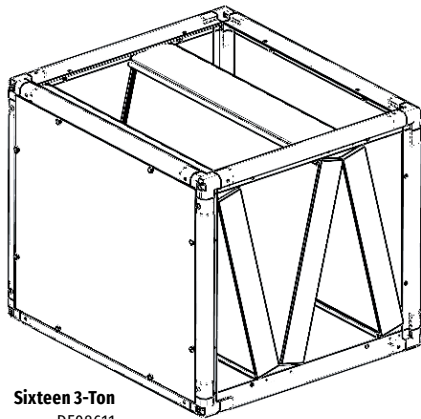
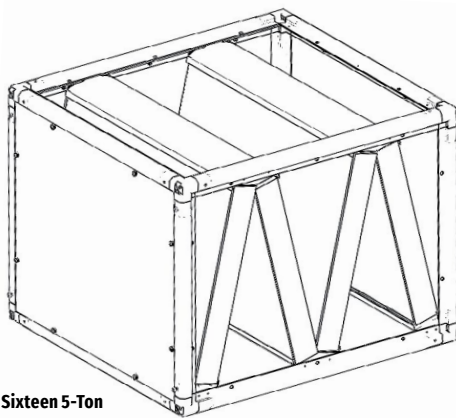


### DUST FREE® SIXTEEN

High-efficiency MERV 16 Media Air Cleaner



**Sixteen 3-Ton**  
DF08611



**Sixteen 5-Ton**  
DF08610

#### General

This product is designed to be installed into an existing HVAC system for improved indoor air quality.

#### Before Installation

- Read all instructions carefully. Failure to do so could damage the equipment or cause harm to yourself or others.
- Acknowledge all warnings.
- Only qualified technicians should perform the installation.
- Install in accordance with national and local wiring regulations and mechanical codes.

#### WARNING

**Falling Hazard. Can cause injury or damage.** Suspension of the unit should be done by a licensed HVAC technician or installer.

**Qualified Technicians Only.** This device must be installed in compliance with all national and local electrical and mechanical codes. Failure to do so will void warranty.

#### Included

- Dust Free Sixteen Media Air Cleaner
- Installation & operation manual
- Installation hardware
- Air Filter Kit included in separate box

EPA Establishment No. 73316-TX-1

Part number:219345-00

Previous Revision: 1A 05/24

#### Parts Overview

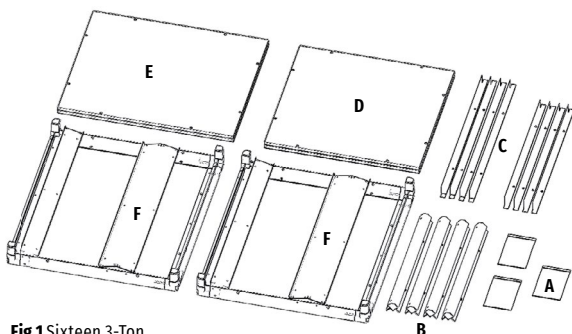


**Fig.1** Sixteen 3-Ton

- A. Hardware & Instructions
- B. Frames
- C. Flanges
- D. Side Panels
- E. Filter Access Panels
- F. Filter Racks

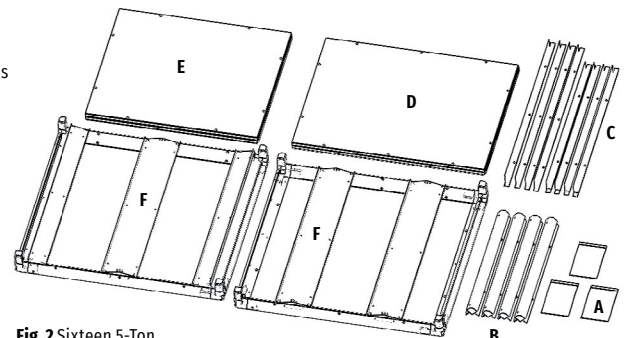


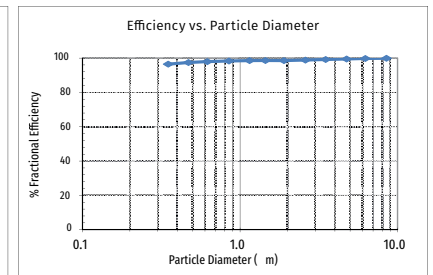
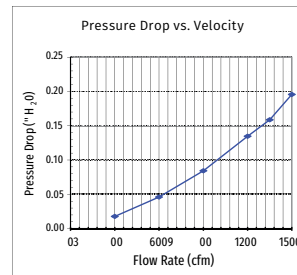
**Fig.2** Sixteen 5-Ton

### Specifications

| Model                   | Sixteen 3-Ton                                                                                                                        | Sixteen 5-Ton                     |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Product Code            | DF08611                                                                                                                              | DF08610                           |
| Size                    | 27.75"D X 23.125"H X 24.75"W                                                                                                         | 27.75"D X 23.25"H X 30.75"W       |
| Weight                  | 42 lbs                                                                                                                               | 49 lbs                            |
| Filtration              | MERV 16 at 0.3 microns.                                                                                                              |                                   |
| Resistance              | 0.13" H <sub>2</sub> O @ 1200 CFM                                                                                                    | 0.18" H <sub>2</sub> O @ 2000 CFM |
| Construction            | Modular alloy Aluminum chassis, high-strength ABS frame corners, 3003 Aluminum filter rails, painted galvanized steel access panels. |                                   |
| Replacement Filter Kit  | DF08600                                                                                                                              | DF08601                           |
| Replacement Filter Size | 19"D X 26.5"H X 2.5"W                                                                                                                | 19"D X 26.5"H X 2.5"W             |
| Filter Included         | 3                                                                                                                                    | 4                                 |

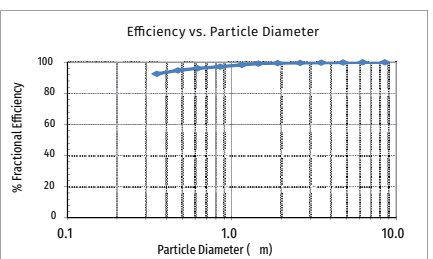
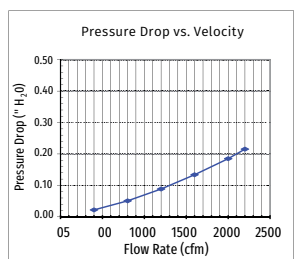
### Performance Data (Sixteen 3-Ton)

| Static Pressure vs. Flow Rate                |           |      |           |      |            |      |
|----------------------------------------------|-----------|------|-----------|------|------------|------|
| Flow Rate (CFM)                              | 300       | 600  | 900       | 1200 | 1350       | 1500 |
| Dp in H <sub>2</sub> O                       | 0.02      | 0.04 | 0.08      | 0.13 | 0.15       | 0.18 |
| Efficiency vs. Particle Diameter (@1200 CFM) |           |      |           |      |            |      |
| Size Range                                   | 0.3 - 1.0 |      | 1.0 - 3.0 |      | 3.0 - 10.0 |      |
| Initial Fractional Efficiency (%)            | 97.6      |      | 98.7      |      | 99.6       |      |



### Performance Data (Sixteen 5-Ton)

| Static Pressure vs. Flow Rate                |           |      |           |      |            |      |
|----------------------------------------------|-----------|------|-----------|------|------------|------|
| Flow Rate (CFM)                              | 400       | 800  | 1200      | 1600 | 2000       | 2200 |
| Dp in H <sub>2</sub> O                       | 0.02      | 0.05 | 0.09      | 0.13 | 0.18       | 0.22 |
| Efficiency vs. Particle Diameter (@2000 CFM) |           |      |           |      |            |      |
| Size Range                                   | 0.3 - 1.0 |      | 1.0 - 3.0 |      | 3.0 - 10.0 |      |
| Initial Fractional Efficiency (%)            | 95.2      |      | 99.2      |      | 99.9       |      |



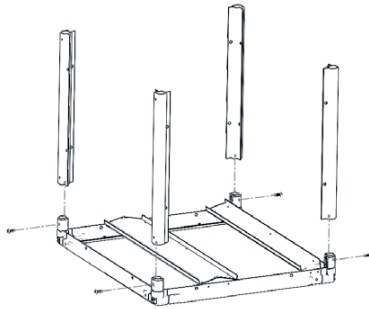


**Fig.3** Install frame sections into frame corners.

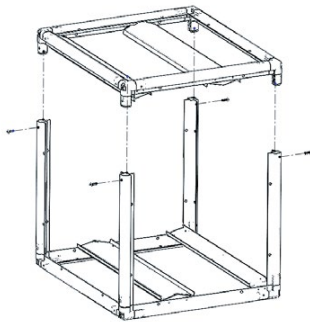


**Fig.4** Install remaining filter rack.

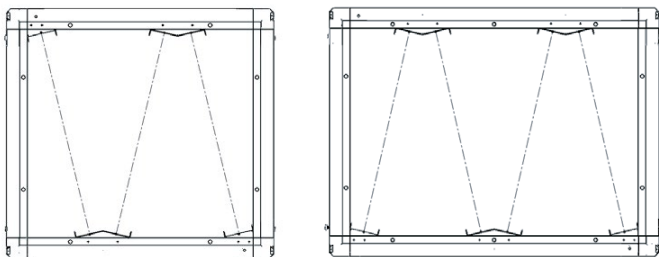


**Fig.5** Proper filter orientation. (3-Ton left – 5-Ton right)

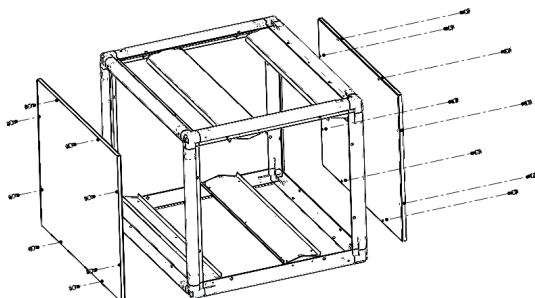


**Fig.6** Install both side access panels.

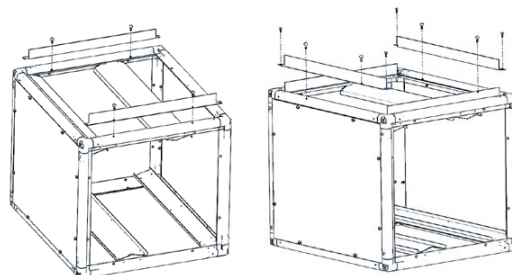


**Fig.7** Mount flanges to inlet and outlet.

### Assembly

Before assembly, remove and identify all components (See page 1). Ensure the entire unit can be moved to the final installation location. If there is not adequate space, final assembly should be conducted at the location of final install location and assembled in place.

**Note DO NOT: Do not use an impact driver on any of the supplied hardware during assembly.** If an electric driver is desired, use an electric drill with the torque output adjusted to the lowest setting to avoid damage to the hardware.

1. Slide qty 4 frame sections onto the black frame corners so the screw holes align with the threaded holes in the frame corners. Install qty 1 of supplied #10-32 screws into each frame section to secure the frame to the filter rack. **See Fig. 3**

**For the 3-ton unit**, the two filter racks are symmetrical so either can be used for the 'Inlet' or 'Outlet' side of the cabinet.

**For the 5-ton unit**, the two filter racks are marked 'Inlet' or 'Outlet' and should be aligned accordingly.

2. Place the remaining filter rack onto the assembly and use qty 4 of the supplied #10-32 screws to attach the filter rack to the assembly. **See Fig. 4**

**Note: Ensure proper filter orientation. See Fig. 5**

**For the 3-ton unit** ensure the filter racks form a 'N' shape to accept three filters.

**For the 5-ton unit** ensure the filter racks form a 'M' shape to accept four filters.

3. Install both side access panels using the 1/4-20 shoulder bolts. Each panel will require qty 8 shoulder bolts. **See Fig. 6**
4. If desired for installation, mount the flanges to the inlet and outlet. **See Fig. 7**
5. Install the filter cabinet as described in the 'Installation' section

**Note: To avoid damage to the air filters, it is recommended to install the filters after installation.** When inserting the air filters, make sure the air flow indicators are in the same direction as the system airflow.

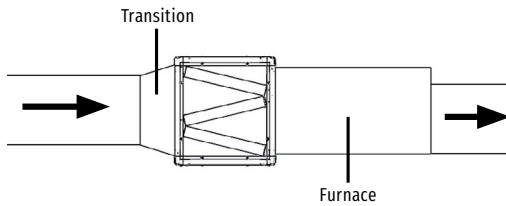


**Fig.8** Horizontal flow option.

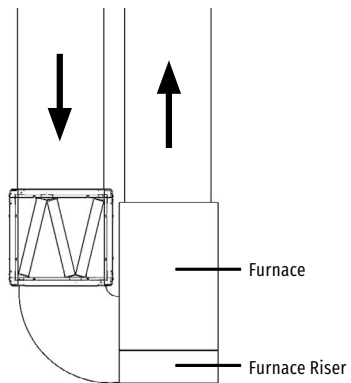


**Fig.9** Upflow option.

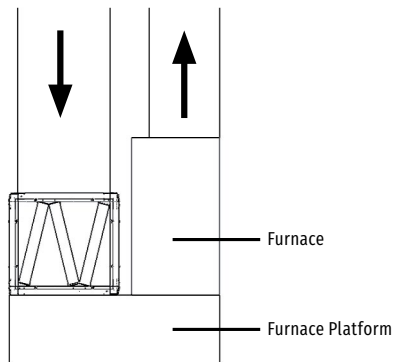


**Fig.10** Furnace platform option.

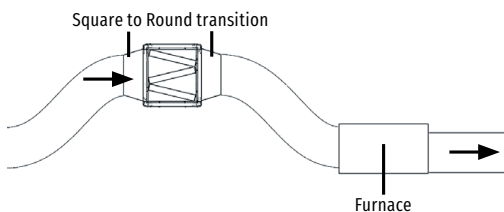


**Fig.11** Remote mount option.

### Installation

Identify a suitable location to install the Dust Free Sixteen in the primary return duct of the HVAC system. A minimum clearance of 26.75" must be available in front of the filter access door to allow for filter replacement.

Assemble the unit as shown on page 3. Ensure there is adequate space to maneuver the unit to the installation location. Otherwise, the unit should be assembled at the installation location.

It is recommended to use the entire area of the inlet and outlet to reduce air flow resistance. Restricting the inlet or outlet will result in increased air flow resistance and reduced filter lifespan. Adapting ductwork to the supplied inlet and outlet flanges will result in the best performance. If a ductwork transition is required during installation, each transition should be a minimum of 8" long for optimized airflow.

If round or flex duct is used, install a square to round transition. Do not use a plate and round collar as this will reduce filter life and increase air flow resistance.

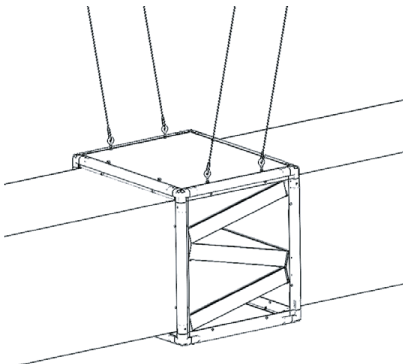
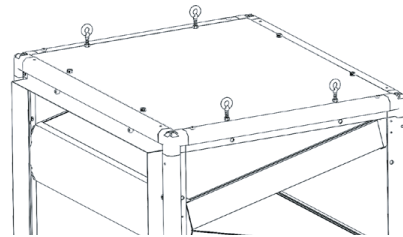
The Dust Free Sixteen is a versatile filter cabinet and can be installed in the following applications:

Inline Horizontal flow, down flow return, Furnace platform, suspended hanging. **See Fig. 8-12**

**Note: If using the supplied eye bolts to suspend the unit, remove the shoulder bolts on the top face and install with jam nut. See Fig. 12**

Ensure that all ductwork is properly sealed to prevent leakage or contamination of the air stream.

**Fig.12** Eyebolt installation for suspended unit.



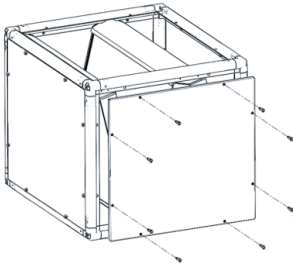


**Fig.13** Access panel removal and replacement.

### Filter Installation and Replacement

1. Remove access panel. **See Fig. 13**
2. If replacing, remove existing filters.
3. Starting at the bottom, insert new filters, being careful to match the airflow arrows on the filters with those on the air cleaner cabinet. **See Figs. 14 and 15**

**Note:** Sixteen 3-Ton requires three filters. Sixteen 5-Ton requires four filters.

4. Replace access panel.

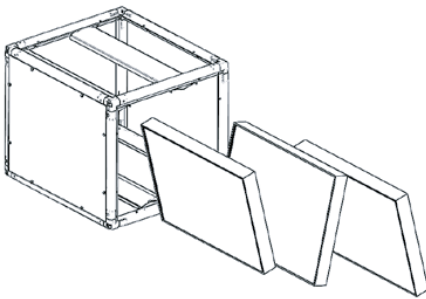


**Fig.14** Filter orientation for 3-Ton.

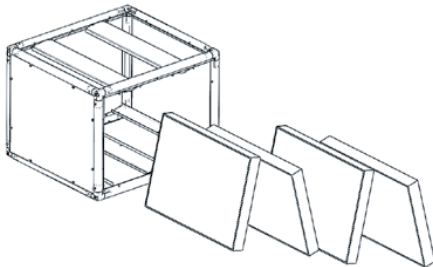
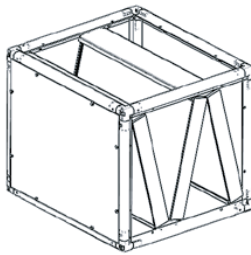


**Fig.15** Filter orientation for 5-Ton.

Manufactured by

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