

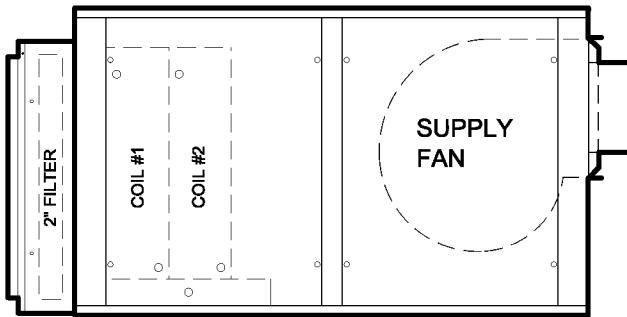
## Indoor Air Handling Unit (Model AMI)

*Model AMI Indoor Air Handling Units are designed to maximize flexibility of selection and installation, enabling you to design the unit to meet specific project needs.*

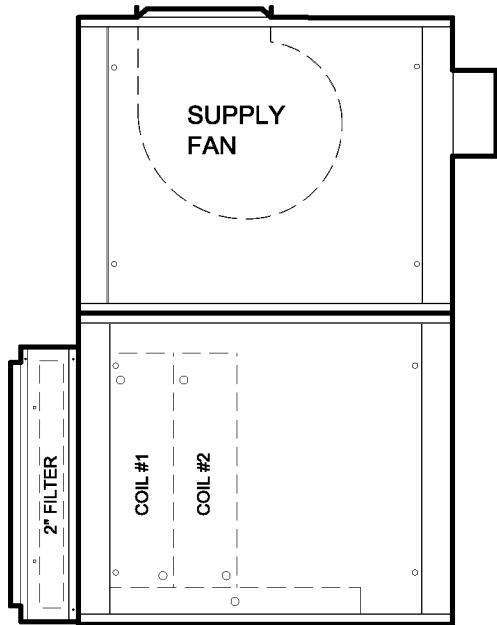


Figure 1: Model AMI Indoor Air Handling Unit

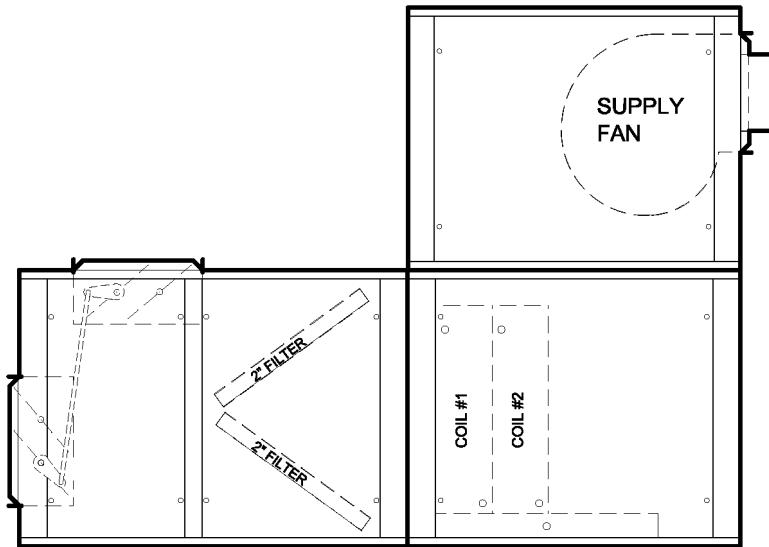
## Typical Installations



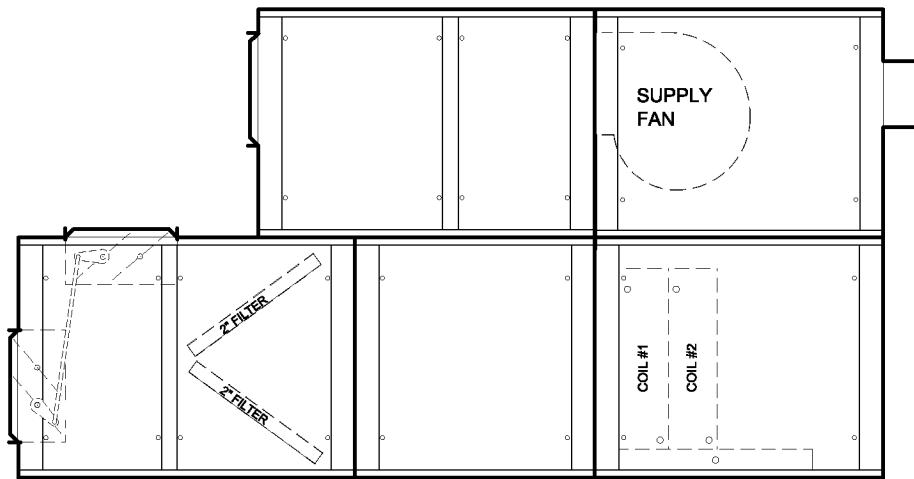
**Figure 2: External Filter, Coils, and Supply Fan – 1 of 2**



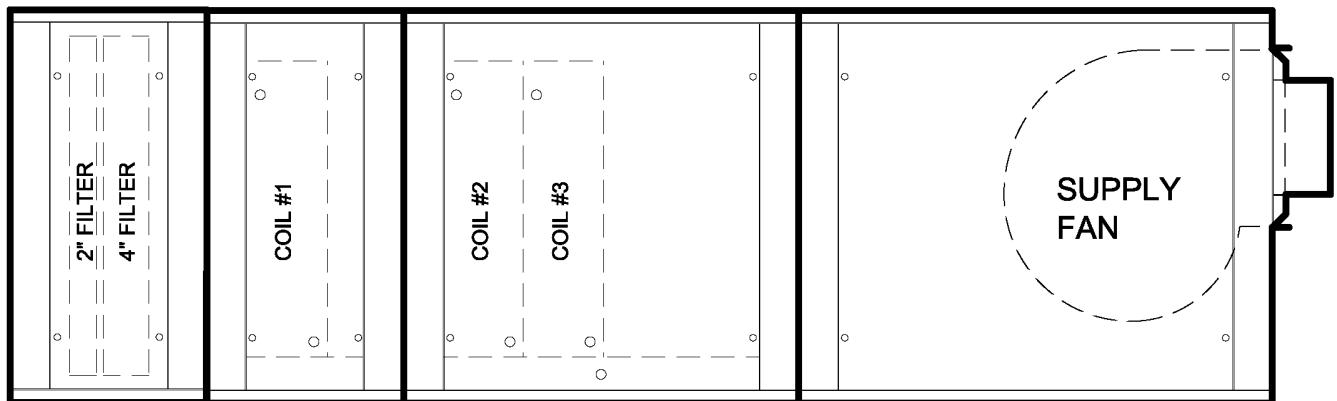
**Figure 3: External Filter, Coils, and Supply Fan – 2 of 2**



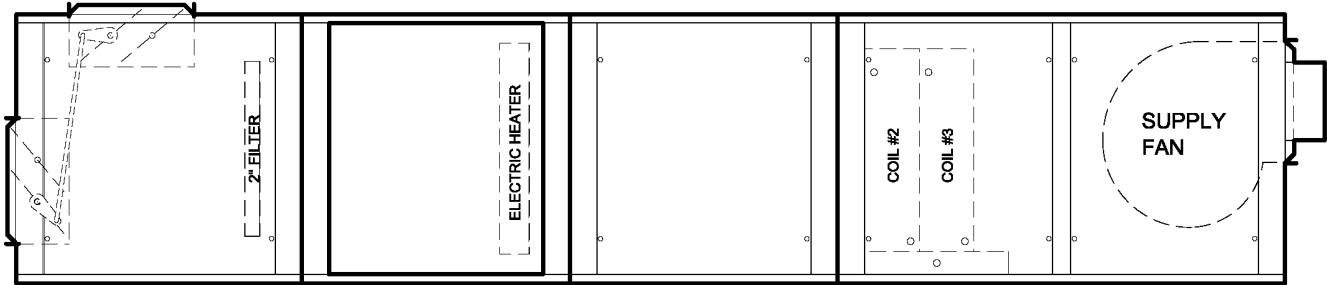
**Figure 4: Angled Filter Mixing Box, Coils, and Supply Fan**



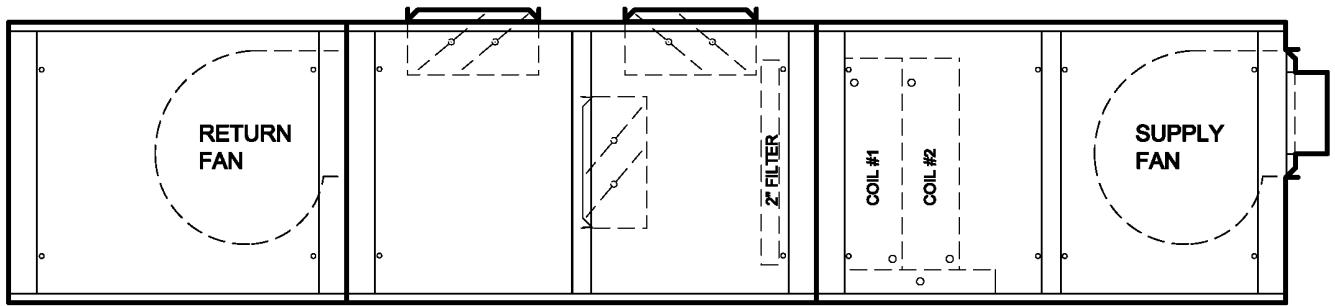
**Figure 5: Angled Filter Mixing Box, Access, Coils, Supply Fan, and Discharge Plenum**



**Figure 6: Cartridge Filters, Coils, and Supply Fan**

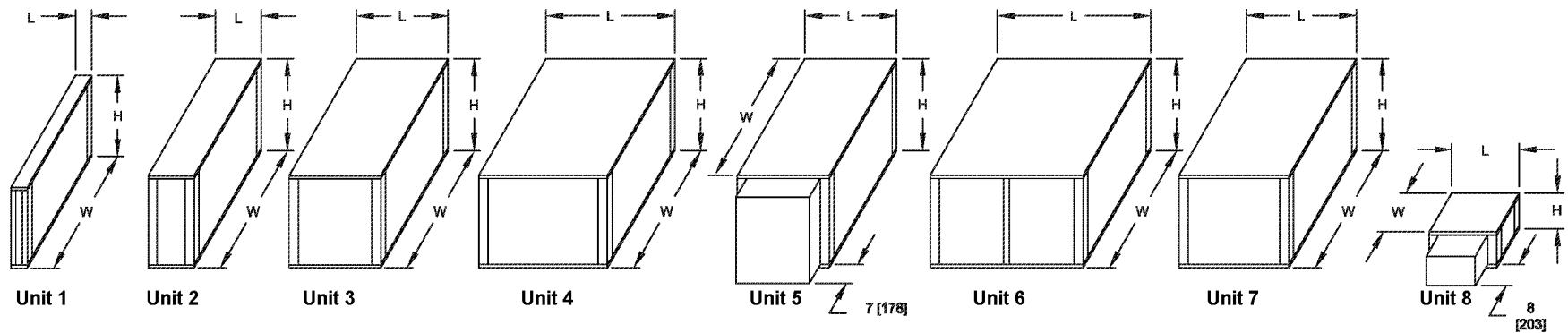


**Figure 7: Flat Filter Mixing Box, Draw-Through Electric Heat, Access, Coils, and Supply Fan**



**Figure 8: Return Fan with Economizer, Coils, and Supply Fan**

## Unit Configuration



**Note:** See the next page for additional related unit configuration information.

**Table 1: Unit Configurations**

| UNIT CONFIGURATION (IN DIRECTION OF AIRFLOW) |  |   |  |  |  |  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|--|--|--|
|  | Module Size  | Dim.                                      | Position:                                |  |  |  |  |  |  |  |  |
|  |  |   | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
|  |  |   |  |  |  |  |  |  |  |  | 10   |
| <b>Unit 1</b>                                | EFM - External Flat Filters (2")   | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 17-3/8 (441)<br>28 (711)<br>5-1/4 (133)  | 17-3/8 (441)<br>34 (864)<br>5-1/4 (133)  | 17-3/8 (441)<br>42 (1069)<br>5-1/4 (133) | 26-3/8 (670)<br>42 (1069)<br>5-1/4 (133) | 26-3/8 (670)<br>46 (1168)<br>5-1/4 (133) | 26-3/8 (670)<br>56 (1422)<br>5-1/4 (133) | 41-3/16 (1046)<br>64 (1626)<br>5-1/4 (133) | 41-3/16 (1046)<br>68 (1727)<br>5-1/4 (133) | 41-3/16 (1046)<br>80 (2032)<br>5-1/4 (133) |
| <b>Unit 2</b>                                | SAM - Small Access<br>SCM - Small Coil<br>SFM - Small Flat Filters (2" and/or 4" Cartridge)  | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>15 (381)         | 22 (559)<br>36 (914)<br>15 (381)         | 22 (559)<br>44 (1118)<br>15 (381)        | 30 (762)<br>44 (1118)<br>15 (381)        | 34 (864)<br>48 (1219)<br>15 (381)        | 34 (864)<br>58 (1473)<br>15 (381)        | 44 (1118)<br>66 (1676)<br>15 (381)         | 44 (1118)<br>70 (1778)<br>15 (381)         | 44 (1118)<br>82 (2083)<br>15 (381)         |
| <b>Unit 3</b>                                | MAM - Medium Access<br>MCM - Medium Coil<br>MFM - Med. INTELLITRAC™ Mix. Box w/Flat Filters (2")<br>MHM - Medium High Eff. Filter (HEPA)<br>MMM - Medium Mixing Box with Flat Filters (2")<br>MVM - Medium V-Bank Filters (2") | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>30 (762)         | 22 (559)<br>36 (914)<br>30 (762)         | 22 (559)<br>44 (1118)<br>30 (762)        | 30 (762)<br>44 (1118)<br>30 (762)        | 34 (864)<br>48 (1219)<br>30 (762)        | 34 (864)<br>58 (1473)<br>30 (762)        | 44 (1118)<br>66 (1676)<br>30 (762)         | 44 (1118)<br>70 (1778)<br>30 (762)         | 44 (1118)<br>82 (2083)<br>30 (762)         |
| <b>Unit 4</b>                                | LAM - Large Access<br>LFM - Lg. INTELLITRAC™ Mix. Box w/V-Bank Filters (2")<br>LMM - Large Mixing Box with V-Bank Filters (2")<br>LPM - Large Discharge Plenum   | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>42 (1067)        | 22 (559)<br>36 (914)<br>42 (1067)        | 22 (559)<br>44 (1118)<br>42 (1067)       | 30 (762)<br>44 (1118)<br>42 (1067)       | 34 (864)<br>48 (1219)<br>42 (1067)       | 34 (864)<br>58 (1473)<br>42 (1067)       | 44 (1118)<br>66 (1676)<br>42 (1067)        | 44 (1118)<br>70 (1778)<br>42 (1067)        | 44 (1118)<br>82 (2083)<br>42 (1067)        |
| <b>Unit 5</b>                                | EHD - Electric Heat Draw Thru  | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>30 (762)         | 22 (559)<br>36 (914)<br>30 (762)         | 22 (559)<br>44 (1118)<br>30 (762)        | 30 (762)<br>44 (1118)<br>30 (762)        | 34 (864)<br>48 (1219)<br>30 (762)        | 34 (864)<br>58 (1473)<br>30 (762)        | 44 (1118)<br>66 (1676)<br>30 (762)         | 44 (1118)<br>70 (1778)<br>30 (762)         | 44 (1118)<br>82 (2083)<br>30 (762)         |
| <b>Unit 6</b>                                | FCM - FC Fan and Coil Combination (Horizontal Only)<br>HEM - Horizontal Economizer<br>PHM - Plug Fan & High Eff. Filter Combination  | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>46 (1168)        | 22 (559)<br>36 (914)<br>46 (1168)        | 22 (559)<br>44 (1118)<br>46 (1168)       | 30 (762)<br>44 (1118)<br>50 (1270)       | 34 (864)<br>48 (1219)<br>50 (1270)       | 34 (864)<br>58 (1473)<br>50 (1270)       | 44 (1118)<br>66 (1676)<br>53 (1346)        | 44 (1118)<br>70 (1778)<br>53 (1346)        | 44 (1118)<br>82 (2083)<br>53 (1346)        |
| <b>Unit 7</b>                                | HFM - Horizontal FC Fan<br>HPM - Horizontal Plug Fan<br>RFM - Return FC Fan<br>VCM - Vertical Coil<br>VFM - Vertical FC Fan<br>XFM - Exhaust FC Fan  | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 22 (559)<br>30 (762)<br>32 (813)         | 22 (559)<br>36 (914)<br>32 (813)         | 22 (559)<br>44 (1118)<br>32 (813)        | 30 (762)<br>44 (1118)<br>36 (914)        | 34 (864)<br>48 (1219)<br>36 (914)        | 34 (864)<br>58 (1473)<br>36 (914)        | 44 (1118)<br>66 (1676)<br>40 (1016)        | 44 (1118)<br>70 (1778)<br>40 (1016)        | 44 (1118)<br>82 (2083)<br>40 (1016)        |
| <b>Unit 8</b>                                | EHB - Electric Heat Blow Thru  | H - in (mm)<br>W - in (mm)<br>L - in (mm) | 13-1/2 (343)<br>11-1/2 (292)<br>22 (559) | 13-1/2 (343)<br>11-1/2 (292)<br>22 (559) | 13-1/2 (343)<br>11-1/2 (292)<br>22 (559) | 18 (457)<br>17 (432)<br>22 (559)         | 18 (457)<br>17 (432)<br>22 (559)         | 18 (457)<br>17 (432)<br>22 (559)         | 21 (533)<br>24 (610)<br>22 (559)           | 21 (533)<br>24 (610)<br>22 (559)           | 21 (533)<br>24 (610)<br>22 (559)           |

**Notes:**

All dimensions are  $\pm 1/4"$  (6mm). Metric values are soft conversions.

Section images are for identification of the unit configuration only. See individual section drawings for submittal details.

Certain configuration rules apply.

All data subject to change without notice.

## Static Pressure Data

**Table 2: Section Pressure Drops**

|                                   |      | Component Air Pressure Drop (in. wg) |             |             |                          |                   |              |      |                   |               |            |            |                        |      |      |
|-----------------------------------|------|--------------------------------------|-------------|-------------|--------------------------|-------------------|--------------|------|-------------------|---------------|------------|------------|------------------------|------|------|
| Unit Size                         | CFM  | Cabinet Losses                       |             |             |                          |                   |              |      |                   | Damper Losses |            |            | Electric Heater Losses |      |      |
|                                   |      | Mixing Box                           | Econo-mizer | Fan Modules |                          | Filter Modules    | Coil Modules |      | Access Modules    | Plenum Module | Mixing Box |            | Econo-mizer            | Blow | Draw |
|                                   |      | MFM<br>LFM<br>MMM<br>LMM             | HEM         | FCM         | HFM<br>RFM<br>VFM<br>XFM | SFM<br>MVM<br>MHM | SCM<br>MCM   | VCM  | SAM<br>MAM<br>LAM | LPM           | MFM<br>LFM | MMM<br>LMM | HEM                    | EHB  | EHD  |
| 02                                | 600  | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.04       | 0.02       | 0.04                   | 0.02 | 0.01 |
|                                   | 850  | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.06       | 0.04       | 0.07                   | 0.04 | 0.01 |
|                                   | 975  | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.04 | 0.04              | 0.04          | 0.07       | 0.05       | 0.09                   | 0.06 | 0.01 |
|                                   | 1100 | 0.03                                 | 0.05        | 0.03        | 0.03                     | 0.05              | 0.05         | 0.05 | 0.05              | 0.05          | 0.08       | 0.06       | 0.11                   | 0.08 | 0.01 |
| 03                                | 900  | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.06       | 0.02       | 0.06                   | 0.05 | 0.01 |
|                                   | 1250 | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.09       | 0.03       | 0.10                   | 0.10 | 0.01 |
|                                   | 1425 | 0.03                                 | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.11       | 0.04       | 0.13                   | 0.13 | 0.01 |
|                                   | 1600 | 0.03                                 | 0.06        | 0.03        | 0.03                     | 0.05              | 0.05         | 0.06 | 0.05              | 0.06          | 0.13       | 0.05       | 0.16                   | 0.17 | 0.01 |
| 04                                | 1200 | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.04       | 0.02       | 0.07                   | 0.09 | 0.01 |
|                                   | 1600 | 0.02                                 | 0.03        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.03 | 0.03              | 0.03          | 0.06       | 0.03       | 0.12                   | 0.17 | 0.01 |
|                                   | 1800 | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.04 | 0.04              | 0.04          | 0.07       | 0.04       | 0.15                   | 0.21 | 0.01 |
|                                   | 2000 | 0.03                                 | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.09       | 0.05       | 0.19                   | 0.27 | 0.01 |
| 06                                | 1800 | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.04       | 0.02       | 0.07                   | 0.04 | 0.01 |
|                                   | 2500 | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.06       | 0.03       | 0.13                   | 0.09 | 0.01 |
|                                   | 2850 | 0.03                                 | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.08       | 0.04       | 0.17                   | 0.12 | 0.01 |
|                                   | 3200 | 0.03                                 | 0.06        | 0.03        | 0.03                     | 0.05              | 0.05         | 0.06 | 0.05              | 0.06          | 0.09       | 0.05       | 0.21                   | 0.15 | 0.01 |
| 08                                | 2300 | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.03       | 0.02       | 0.06                   | 0.07 | 0.01 |
|                                   | 3250 | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.05       | 0.03       | 0.12                   | 0.15 | 0.01 |
|                                   | 3725 | 0.03                                 | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.06       | 0.04       | 0.16                   | 0.20 | 0.01 |
|                                   | 4200 | 0.03                                 | 0.06        | 0.03        | 0.03                     | 0.05              | 0.05         | 0.06 | 0.05              | 0.06          | 0.07       | 0.05       | 0.20                   | 0.26 | 0.01 |
| 10                                | 2900 | 0.01                                 | 0.02        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.02 | 0.02              | 0.02          | 0.02       | 0.02       | 0.09                   | 0.12 | 0.01 |
|                                   | 4100 | 0.02                                 | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.04       | 0.03       | 0.17                   | 0.25 | 0.01 |
|                                   | 4700 | 0.03                                 | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.06       | 0.04       | 0.22                   | 0.33 | 0.01 |
|                                   | 5300 | 0.03                                 | 0.06        | 0.03        | 0.03                     | 0.05              | 0.05         | 0.06 | 0.05              | 0.06          | 0.07       | 0.05       | 0.27                   | 0.42 | 0.01 |
| <b>Continued on next page ...</b> |      |                                      |             |             |                          |                   |              |      |                   |               |            |            |                        |      |      |

| Component Air Pressure Drop (in. wg) |      |                          |             |             |                          |                   |              |      |                   |               |            |            |                        |            |      |
|--------------------------------------|------|--------------------------|-------------|-------------|--------------------------|-------------------|--------------|------|-------------------|---------------|------------|------------|------------------------|------------|------|
| Unit Size<br>(Cont.)                 | CFM  | Cabinet Losses           |             |             |                          |                   |              |      |                   | Damper Losses |            |            | Electric Heater Losses |            |      |
|                                      |      | Mixing Box               | Econo-mizer | Fan Modules |                          | Filter Modules    | Coil Modules |      | Access Modules    | Plenum Module | Mixing Box |            | Econo-mizer            | Blow       |      |
|                                      |      | MFM<br>LFM<br>MMM<br>LMM | HEM         | FCM         | HFM<br>RFM<br>VFM<br>XFM | SFM<br>MVM<br>MHM | SCM<br>MCM   | VCM  | SAM<br>MAM<br>LAM | LPM           | MFM<br>LFM | MMM<br>LMM | HEM                    | EHB<br>EHD |      |
| 12                                   | 3800 | 0.01                     | 0.01        | 0.01        | 0.01                     | 0.01              | 0.01         | 0.01 | 0.01              | 0.01          | 0.04       | 0.02       | 0.08                   | 0.07       | 0.01 |
|                                      | 5325 | 0.02                     | 0.03        | 0.01        | 0.01                     | 0.02              | 0.02         | 0.03 | 0.02              | 0.03          | 0.07       | 0.04       | 0.16                   | 0.14       | 0.01 |
|                                      | 6090 | 0.02                     | 0.03        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.03 | 0.03              | 0.03          | 0.09       | 0.05       | 0.21                   | 0.18       | 0.01 |
|                                      | 6850 | 0.02                     | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.11       | 0.06       | 0.26                   | 0.23       | 0.01 |
| 14                                   | 4400 | 0.01                     | 0.02        | 0.01        | 0.01                     | 0.01              | 0.01         | 0.02 | 0.01              | 0.02          | 0.02       | 0.02       | 0.08                   | 0.09       | 0.01 |
|                                      | 6200 | 0.02                     | 0.03        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.03 | 0.03              | 0.03          | 0.04       | 0.03       | 0.15                   | 0.19       | 0.01 |
|                                      | 7100 | 0.02                     | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.05       | 0.04       | 0.20                   | 0.25       | 0.01 |
|                                      | 8000 | 0.03                     | 0.05        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.05 | 0.04              | 0.05          | 0.07       | 0.05       | 0.25                   | 0.32       | 0.01 |
| 17                                   | 5100 | 0.01                     | 0.02        | 0.01        | 0.01                     | 0.01              | 0.01         | 0.02 | 0.01              | 0.02          | 0.02       | 0.02       | 0.10                   | 0.13       | 0.01 |
|                                      | 7225 | 0.02                     | 0.03        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.03 | 0.03              | 0.03          | 0.04       | 0.04       | 0.20                   | 0.26       | 0.01 |
|                                      | 8290 | 0.02                     | 0.04        | 0.02        | 0.02                     | 0.03              | 0.03         | 0.04 | 0.03              | 0.04          | 0.05       | 0.05       | 0.26                   | 0.35       | 0.01 |
|                                      | 9350 | 0.02                     | 0.04        | 0.02        | 0.02                     | 0.04              | 0.04         | 0.04 | 0.04              | 0.04          | 0.06       | 0.06       | 0.33                   | 0.45       | 0.01 |

**Notes:**

Figures do not include the pressure drop of internal filter media. See Table 3 for filter air pressure drop adders.

Figures do not include the pressure drop of internal heating and/or cooling coils. See Table 4 for coil air pressure drop adders.

Mixing box with single damper in fully opened position operating at 100% air volume.

Economizer with outside air and exhaust dampers in fully opened position operating at 100% air volume.

**Table 3: Filter Pressure Drops**

| Air Pressure Drop Through Filter Section (in. wg) |                   |                    |      |      |      |      |      |      |      |      |      |      |      |      |
|---|-------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Filter Type                                       | Size & Efficiency | Air Velocity (FPM) |      |      |      |      |      |      |      |      |      |      |      |      |
|   |                   | 200                | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  | 750  | 800  |
| High Efficiency Pleated                           | 2" @ 30%          | 0.12               | 0.15 | 0.18 | 0.21 | 0.24 | 0.27 | 0.30 | 0.33 | 0.36 | 0.39 | 0.42 | 0.45 | 0.48 |
|   | 4" @ 65%          | 0.18               | 0.23 | 0.27 | 0.32 | 0.36 | 0.41 | 0.45 | 0.50 | 0.54 | 0.59 | 0.63 | 0.68 | 0.72 |
|   | 4" @ 85%          | 0.26               | 0.33 | 0.39 | 0.46 | 0.52 | 0.59 | 0.65 | 0.72 | 0.78 | 0.85 | 0.91 | 0.98 | 1.04 |
|   | 4" @ 95%          | 0.30               | 0.38 | 0.45 | 0.53 | 0.60 | 0.68 | 0.75 | 0.83 | 0.90 | 0.98 | 1.05 | 1.13 | 1.20 |
| HEPA  | 12" @ 99.97%      | 0.24               | 0.30 | 0.36 | 0.42 | 0.48 | 0.54 | 0.60 | 0.66 | 0.72 | 0.78 | 0.84 | 0.90 | 0.96 |

**Notes:**

Figures listed represent the air pressure drop of clean filters.

Usable pressure drop across pleated media not recommended to exceed 1.0" wg. Usable pressure drop across HEPA media not recommended to exceed 2x clean filter values. Air velocities associated with pressure drops in the shaded region not recommended.

**Table 4: Coil Pressure Drops**

|      |               | Air Pressure Drop Through Dry Coil Section (in. wg) |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Rows | Fins per Inch | Air Velocity (FPM)                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|      |               | 200   | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  | 750  | 800  |
| 1    | 8             | 0.01  | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 |
|      | 10            | 0.02  | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 |
|      | 12            | 0.02  | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 | 0.18 |
|      | 14            | 0.02  | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 | 0.10 | 0.11 | 0.13 | 0.14 | 0.16 | 0.18 | 0.20 |
| 2    | 8             | 0.03  | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.17 | 0.20 | 0.23 | 0.25 | 0.28 |
|      | 10            | 0.04  | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.17 | 0.20 | 0.23 | 0.26 | 0.29 | 0.32 |
|      | 12            | 0.04  | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.29 | 0.33 | 0.36 |
|      | 14            | 0.05  | 0.07 | 0.09 | 0.11 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.29 | 0.33 | 0.36 | 0.40 |
| 3    | 8             | 0.04  | 0.06 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 | 0.42 |
|      | 10            | 0.05  | 0.08 | 0.10 | 0.13 | 0.16 | 0.19 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 |
|      | 12            | 0.06  | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.49 | 0.55 |
|      | 14            | 0.07  | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.29 | 0.33 | 0.38 | 0.43 | 0.49 | 0.55 | 0.61 |
| 4    | 8             | 0.06  | 0.09 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.35 | 0.40 | 0.45 | 0.51 | 0.57 |
|      | 10            | 0.07  | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.35 | 0.40 | 0.46 | 0.52 | 0.58 | 0.65 |
|      | 12            | 0.08  | 0.12 | 0.15 | 0.19 | 0.24 | 0.29 | 0.34 | 0.40 | 0.46 | 0.52 | 0.58 | 0.65 | 0.73 |
|      | 14            | 0.09  | 0.13 | 0.17 | 0.22 | 0.27 | 0.32 | 0.38 | 0.44 | 0.51 | 0.58 | 0.65 | 0.73 | 0.81 |
| 6    | 8             | 0.09  | 0.13 | 0.17 | 0.22 | 0.27 | 0.33 | 0.39 | 0.45 | 0.52 | 0.60 | 0.68 | 0.76 | 0.85 |
|      | 10            | 0.11  | 0.15 | 0.20 | 0.26 | 0.32 | 0.38 | 0.45 | 0.52 | 0.60 | 0.69 | 0.78 | 0.87 | 0.97 |
|      | 12            | 0.12  | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.51 | 0.59 | 0.68 | 0.78 | 0.88 | 0.98 | 1.09 |
|      | 14            | 0.14  | 0.20 | 0.26 | 0.33 | 0.40 | 0.48 | 0.57 | 0.66 | 0.76 | 0.87 | 0.98 | 1.09 | 1.21 |
| 8    | 8             | 0.12  | 0.17 | 0.23 | 0.29 | 0.36 | 0.44 | 0.52 | 0.61 | 0.70 | 0.80 | 0.90 | 1.01 | 1.13 |
|      | 10            | 0.14  | 0.20 | 0.27 | 0.34 | 0.42 | 0.51 | 0.60 | 0.70 | 0.80 | 0.92 | 1.04 | 1.16 | 1.29 |
|      | 12            | 0.16  | 0.23 | 0.31 | 0.39 | 0.48 | 0.58 | 0.68 | 0.79 | 0.91 | 1.04 | 1.17 | 1.31 | 1.45 |
|      | 14            | 0.19  | 0.26 | 0.35 | 0.44 | 0.54 | 0.65 | 0.76 | 0.89 | 1.02 | 1.15 | 1.30 | 1.46 | 1.62 |

**Note:** Dehumidifying cooling coils with face velocities exceeding 525 Feet Per Minute (FPM) are not recommended.

## Weight Data

**Table 5: Coil Weight Data**

| Unit Size | Coil Rows | Coil Weights |          |          |           |            |           |           |           |            |           |           |           |
|-----------|-----------|--------------|----------|----------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
|           |           | Dry Coil     |          |          |           | 100% Water |           |           |           | 40% Glycol |           |           |           |
|           |           | 8 FPI        | 10 FPI   | 12 FPI   | 14 FPI    | 8 FPI      | 10 FPI    | 12 FPI    | 14 FPI    | 8 FPI      | 10 FPI    | 12 FPI    | 14 FPI    |
| 02        | 1         | 10 [5]       | 11 [5]   | 11 [5]   | 11 [5]    | 12 [5]     | 12 [5]    | 13 [6]    | 13 [6]    | 12 [5]     | 12 [5]    | 13 [6]    | 13 [6]    |
|           | 2         | 16 [7]       | 16 [7]   | 17 [8]   | 18 [8]    | 19 [9]     | 20 [9]    | 21 [10]   | 21 [10]   | 20 [9]     | 20 [9]    | 21 [10]   | 22 [10]   |
|           | 3         | 21 [10]      | 22 [10]  | 23 [11]  | 24 [11]   | 27 [12]    | 28 [13]   | 29 [13]   | 30 [14]   | 27 [12]    | 28 [13]   | 29 [13]   | 30 [14]   |
|           | 4         | 28 [13]      | 29 [13]  | 30 [14]  | 32 [14]   | 35 [16]    | 36 [16]   | 37 [17]   | 39 [18]   | 35 [16]    | 36 [16]   | 38 [17]   | 39 [18]   |
|           | 6         | 40 [18]      | 42 [19]  | 44 [20]  | 46 [21]   | 51 [23]    | 53 [24]   | 55 [25]   | 57 [26]   | 51 [23]    | 53 [24]   | 55 [25]   | 58 [26]   |
|           | 8         | 57 [26]      | 61 [28]  | 65 [30]  | 69 [31]   | 71 [32]    | 75 [34]   | 79 [36]   | 83 [38]   | 72 [33]    | 76 [34]   | 80 [36]   | 84 [38]   |
| 03        | 1         | 13 [6]       | 13 [6]   | 13 [6]   | 14 [6]    | 15 [7]     | 16 [7]    | 16 [7]    | 17 [8]    | 15 [7]     | 16 [7]    | 16 [7]    | 17 [8]    |
|           | 2         | 19 [9]       | 20 [9]   | 21 [10]  | 22 [10]   | 24 [11]    | 25 [12]   | 26 [12]   | 27 [12]   | 25 [11]    | 26 [12]   | 27 [12]   | 28 [13]   |
|           | 3         | 26 [12]      | 28 [13]  | 29 [13]  | 31 [14]   | 34 [15]    | 35 [16]   | 37 [17]   | 38 [17]   | 34 [15]    | 36 [16]   | 37 [17]   | 39 [17]   |
|           | 4         | 34 [15]      | 36 [16]  | 38 [17]  | 40 [18]   | 44 [20]    | 46 [21]   | 48 [22]   | 50 [23]   | 44 [20]    | 46 [21]   | 48 [22]   | 50 [23]   |
|           | 6         | 50 [23]      | 53 [24]  | 56 [25]  | 59 [27]   | 64 [29]    | 67 [31]   | 70 [32]   | 73 [33]   | 65 [20]    | 68 [31]   | 71 [32]   | 74 [34]   |
|           | 8         | 71 [32]      | 76 [34]  | 81 [37]  | 86 [39]   | 89 [41]    | 95 [43]   | 100 [45]  | 105 [47]  | 91 [41]    | 96 [43]   | 101 [46]  | 106 [48]  |
| 04        | 1         | 15 [7]       | 15 [7]   | 16 [7]   | 17 [8]    | 18 [8]     | 18 [8]    | 19 [9]    | 20 [9]    | 18 [8]     | 19 [9]    | 19 [9]    | 20 [9]    |
|           | 2         | 23 [11]      | 24 [11]  | 26 [12]  | 27 [12]   | 29 [13]    | 30 [14]   | 32 [15]   | 33 [15]   | 30 [13]    | 31 [14]   | 32 [15]   | 33 [15]   |
|           | 3         | 32 [14]      | 33 [15]  | 35 [16]  | 37 [17]   | 40 [18]    | 42 [19]   | 44 [20]   | 46 [21]   | 41 [19]    | 43 [19]   | 45 [20]   | 47 [21]   |
|           | 4         | 41 [19]      | 44 [20]  | 46 [21]  | 49 [22]   | 53 [24]    | 55 [25]   | 58 [26]   | 60 [27]   | 54 [24]    | 56 [25]   | 59 [27]   | 61 [28]   |
|           | 6         | 60 [27]      | 64 [29]  | 68 [31]  | 72 [33]   | 78 [35]    | 82 [37]   | 86 [39]   | 89 [41]   | 79 [36]    | 83 [38]   | 87 [39]   | 90 [41]   |
|           | 8         | 80 [36]      | 85 [38]  | 90 [41]  | 95 [43]   | 103 [47]   | 108 [49]  | 113 [51]  | 118 [54]  | 105 [47]   | 110 [50]  | 115 [52]  | 120 [54]  |
| 06        | 1         | 19 [9]       | 20 [9]   | 21 [10]  | 22 [10]   | 24 [11]    | 25 [11]   | 26 [12]   | 27 [12]   | 24 [11]    | 25 [11]   | 26 [12]   | 27 [12]   |
|           | 2         | 32 [14]      | 34 [15]  | 36 [16]  | 38 [17]   | 41 [19]    | 43 [20]   | 45 [20]   | 47 [21]   | 42 [19]    | 43 [20]   | 45 [20]   | 47 [21]   |
|           | 3         | 45 [20]      | 48 [22]  | 50 [23]  | 53 [24]   | 58 [26]    | 61 [28]   | 64 [29]   | 67 [30]   | 59 [27]    | 62 [28]   | 65 [29]   | 67 [30]   |
|           | 4         | 59 [27]      | 62 [28]  | 66 [30]  | 70 [32]   | 76 [35]    | 80 [36]   | 84 [38]   | 88 [40]   | 77 [35]    | 81 [37]   | 85 [39]   | 89 [40]   |
|           | 6         | 87 [39]      | 92 [42]  | 98 [44]  | 104 [47]  | 113 [51]   | 119 [54]  | 124 [56]  | 130 [59]  | 115 [52]   | 120 [55]  | 126 [57]  | 132 [60]  |
|           | 8         | 117 [53]     | 125 [57] | 133 [61] | 142 [64]  | 152 [69]   | 160 [73]  | 169 [77]  | 177 [80]  | 155 [70]   | 163 [74]  | 171 [78]  | 179 [81]  |
| 08        | 1         | 23 [11]      | 25 [11]  | 26 [12]  | 27 [12]   | 30 [14]    | 31 [14]   | 32 [15]   | 33 [15]   | 30 [14]    | 31 [14]   | 32 [15]   | 34 [15]   |
|           | 2         | 40 [18]      | 43 [19]  | 45 [20]  | 48 [22]   | 52 [24]    | 54 [25]   | 57 [26]   | 59 [27]   | 53 [24]    | 55 [25]   | 58 [26]   | 60 [27]   |
|           | 3         | 57 [26]      | 61 [27]  | 64 [29]  | 68 [31]   | 75 [34]    | 78 [36]   | 82 [37]   | 86 [39]   | 76 [34]    | 79 [36]   | 83 [38]   | 87 [39]   |
|           | 4         | 75 [34]      | 80 [36]  | 85 [38]  | 90 [41]   | 98 [45]    | 103 [47]  | 108 [49]  | 113 [51]  | 100 [45]   | 105 [47]  | 110 [50]  | 115 [52]  |
|           | 6         | 111 [50]     | 118 [54] | 126 [57] | 133 [60]  | 146 [66]   | 153 [69]  | 161 [73]  | 168 [76]  | 148 [67]   | 155 [70]  | 163 [74]  | 170 [77]  |
|           | 8         | 157 [71]     | 169 [77] | 182 [83] | 195 [88]  | 204 [92]   | 216 [98]  | 229 [104] | 241 [110] | 207 [94]   | 219 [99]  | 232 [105] | 245 [111] |
| 10        | 1         | 28 [13]      | 30 [13]  | 31 [14]  | 33 [15]   | 36 [16]    | 37 [17]   | 39 [18]   | 40 [18]   | 36 [16]    | 38 [17]   | 39 [18]   | 41 [18]   |
|           | 2         | 48 [22]      | 51 [23]  | 54 [25]  | 57 [26]   | 63 [28]    | 66 [30]   | 69 [31]   | 72 [33]   | 64 [29]    | 67 [30]   | 70 [32]   | 73 [33]   |
|           | 3         | 68 [31]      | 73 [33]  | 77 [35]  | 82 [37]   | 90 [41]    | 95 [43]   | 99 [45]   | 104 [47]  | 91 [41]    | 96 [44]   | 101 [46]  | 106 [48]  |
|           | 4         | 89 [41]      | 96 [43]  | 102 [46] | 108 [49]  | 119 [54]   | 125 [57]  | 131 [60]  | 138 [62]  | 120 [55]   | 127 [58]  | 133 [60]  | 139 [63]  |
|           | 6         | 133 [60]     | 142 [64] | 152 [69] | 161 [73]  | 176 [80]   | 186 [84]  | 195 [88]  | 204 [93]  | 179 [81]   | 188 [85]  | 198 [90]  | 207 [94]  |
|           | 8         | 183 [83]     | 197 [90] | 212 [96] | 226 [103] | 241 [109]  | 255 [116] | 270 [122] | 284 [129] | 244 [111]  | 259 [117] | 273 [124] | 288 [131] |

Continued on next page . . .

| Coil Weights         |           |           |           |           |           |            |           |           |           |            |           |           |           |  |
|----------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--|
| Unit Size<br>(Cont.) | Coil Rows | Dry Coil  |           |           |           | 100% Water |           |           |           | 40% Glycol |           |           |           |  |
|                      |           | 8 FPI     | 10 FPI    | 12 FPI    | 14 FPI    | 8 FPI      | 10 FPI    | 12 FPI    | 14 FPI    | 8 FPI      | 10 FPI    | 12 FPI    | 14 FPI    |  |
| 12                   | 1         | 35 [16]   | 37 [17]   | 39 [18]   | 42 [19]   | 45 [21]    | 48 [22]   | 50 [23]   | 52 [24]   | 46 [21]    | 48 [22]   | 50 [23]   | 52 [24]   |  |
|                      | 2         | 62 [28]   | 66 [30]   | 70 [32]   | 74 [34]   | 81 [37]    | 86 [39]   | 90 [41]   | 94 [43]   | 83 [38]    | 87 [39]   | 91 [41]   | 95 [43]   |  |
|                      | 3         | 88 [40]   | 94 [43]   | 101 [46]  | 107 [49]  | 118 [53]   | 124 [56]  | 130 [59]  | 137 [62]  | 119 [54]   | 126 [57]  | 132 [60]  | 139 [63]  |  |
|                      | 4         | 116 [53]  | 125 [57]  | 133 [60]  | 142 [64]  | 155 [70]   | 164 [74]  | 172 [78]  | 181 [82]  | 158 [72]   | 166 [75]  | 175 [79]  | 184 [83]  |  |
|                      | 6         | 173 [78]  | 186 [84]  | 199 [90]  | 211 [96]  | 231 [105]  | 244 [111] | 257 [117] | 270 [122] | 235 [107]  | 248 [112] | 261 [118] | 274 [124] |  |
|                      | 8         | 233 [106] | 251 [114] | 269 [122] | 287 [130] | 311 [141]  | 329 [149] | 347 [157] | 365 [165] | 316 [143]  | 334 [151] | 352 [160] | 370 [168] |  |
| 14                   | 1         | 39 [18]   | 41 [19]   | 44 [20]   | 46 [21]   | 50 [23]    | 53 [24]   | 55 [25]   | 58 [26]   | 51 [23]    | 54 [24]   | 56 [25]   | 58 [26]   |  |
|                      | 2         | 69 [31]   | 74 [33]   | 78 [36]   | 83 [38]   | 91 [41]    | 96 [43]   | 101 [46]  | 106 [48]  | 92 [42]    | 97 [44]   | 102 [46]  | 107 [49]  |  |
|                      | 3         | 98 [45]   | 106 [48]  | 113 [51]  | 120 [55]  | 132 [60]   | 139 [63]  | 146 [66]  | 154 [70]  | 134 [61]   | 141 [64]  | 149 [67]  | 156 [71]  |  |
|                      | 4         | 130 [59]  | 140 [63]  | 149 [68]  | 159 [72]  | 174 [79]   | 184 [83]  | 194 [88]  | 203 [92]  | 177 [80]   | 187 [85]  | 197 [89]  | 206 [94]  |  |
|                      | 6         | 194 [88]  | 208 [94]  | 223 [101] | 237 [108] | 260 [118]  | 274 [124] | 289 [131] | 303 [138] | 264 [120]  | 279 [126] | 293 [133] | 308 [140] |  |
|                      | 8         | 272 [123] | 295 [134] | 318 [144] | 341 [155] | 359 [163]  | 382 [173] | 405 [184] | 428 [194] | 365 [166]  | 388 [176] | 411 [186] | 434 [197] |  |
| 17                   | 1         | 45 [20]   | 48 [22]   | 51 [23]   | 53 [24]   | 58 [26]    | 61 [28]   | 64 [29]   | 67 [30]   | 59 [27]    | 62 [28]   | 65 [29]   | 68 [31]   |  |
|                      | 2         | 79 [36]   | 85 [39]   | 91 [41]   | 97 [44]   | 106 [48]   | 112 [51]  | 117 [53]  | 123 [56]  | 108 [49]   | 113 [51]  | 119 [54]  | 125 [57]  |  |
|                      | 3         | 114 [52]  | 122 [56]  | 131 [59]  | 140 [63]  | 153 [69]   | 162 [73]  | 170 [77]  | 179 [81]  | 155 [71]   | 164 [74]  | 173 [78]  | 181 [82]  |  |
|                      | 4         | 150 [68]  | 162 [73]  | 173 [79]  | 185 [84]  | 203 [92]   | 214 [97]  | 226 [102] | 237 [108] | 206 [93]   | 217 [99]  | 229 [104] | 240 [109] |  |
|                      | 6         | 224 [102] | 241 [109] | 259 [117] | 276 [125] | 302 [137]  | 319 [145] | 336 [153] | 354 [160] | 307 [139]  | 324 [147] | 341 [155] | 359 [163] |  |
|                      | 8         | 206 [93]  | 206 [93]  | 206 [93]  | 206 [93]  | 309 [140]  | 309 [140] | 309 [140] | 309 [140] | 315 [143]  | 315 [143] | 315 [143] | 315 [143] |  |

**Note:** Unit weight data is the shipping weight in pounds (kilograms).

## Weight and Electrical Data

**Table 6: Motor/Drive Weight Data**

| Motor Type     | Motor Weights    |         |          |         |         |         |         |          |          |          |           |
|----------------|------------------|---------|----------|---------|---------|---------|---------|----------|----------|----------|-----------|
|                | Motor Horsepower |         |          |         |         |         |         |          |          |          |           |
|                | 1/3              | 1/2     | 3/4      | 1       | 1 1/2   | 2       | 3       | 5        | 7 1/2    | 10       | 15        |
| <b>ODP</b>     | 25 [11]          | 28 [13] | 30 [762] | 35 [16] | 45 [20] | 35 [16] | 75 [34] | 100 [45] | 125 [57] | 125 [57] | 220 [100] |
| <b>TEFC</b>    | 28 [13]          | 35 [16] | 33 [338] | 45 [20] | 65 [29] | 70 [32] | 85 [39] | 105 [48] | 145 [66] | 160 [73] | 295 [134] |
| <b>E+</b>      | N/A              | N/A     | N/A      | 40 [18] | 55 [25] | 55 [25] | 90 [41] | 100 [45] | 145 [66] | 130 [59] | 300 [136] |
| <b>2 SPEED</b> | 45 [20]          | 35 [16] | 33 [338] | 45 [20] | 40 [18] | 70 [32] | 75 [34] | N/A      | N/A      | N/A      | N/A       |

**Notes:**

Motor weight includes the motor, pulleys, belts, and motor base.

Motor/drive weight data is the shipping weight in pounds (kilograms).

**Table 7: Motor Electrical Data**

| Horsepower | Maximum Motor Amperage |       |       |       |       |       |       |       |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|
|            | Voltage                |       |       |       |       |       |       |       |
|            | 115/1                  | 208/1 | 230/1 | 277/1 | 208/3 | 230/3 | 460/3 | 575/3 |
| 1/3        | 6.3                    | 3.5   | 3.2   | 2.6   | 1.7   | 1.5   | 0.8   | -     |
| 1/2        | 7.8                    | 4.3   | 3.9   | 3.6   | 2.2   | 2.1   | 1.1   | 0.9   |
| 3/4        | 10.6                   | 5.4   | 5.3   | 5.0   | 3.2   | 3.0   | 1.5   | 1.2   |
| 1          | 15.0                   | 8.3   | 7.5   | 5.5   | 4.0   | 3.6   | 1.8   | 1.4   |
| 1 1/2      | -                      | -     | -     | -     | 5.3   | 5.0   | 2.5   | 1.9   |
| 2          | -                      | -     | -     | -     | 7.0   | 6.4   | 3.2   | 2.5   |
| 3          | -                      | -     | -     | -     | 9.1   | 9.0   | 4.5   | 3.2   |
| 5          | -                      | -     | -     | -     | 14.2  | 12.8  | 6.4   | 5.2   |
| 7 1/2      | -                      | -     | -     | -     | 22.2  | 21.6  | 10.8  | 8.2   |
| 10         | -                      | -     | -     | -     | 28.6  | 28.4  | 14.2  | 11.4  |
| 15         | -                      | -     | -     | -     | 44.9  | 40.6  | 20.3  | 16.2  |

**Notes:**

Actual motor nameplate amperes may vary, but will not exceed values shown.

Consult the factory for applications requiring special motors.

## General Fan Notes

### Forward Curved Fans (Belt Drive)

Consult the factory for applications at operating conditions not in the following table and curves.

Fan motor voltage, fan rotation, and fan RPM may require field setting/adjustment.

Drive losses not included in fan performance table and curves.

In the direction of airflow, after-fan discharge – only Large Plenum (LPM) and Electric Heat Blow-Through (EHB) are available.

The section will have internal spring isolation.

### Plug Fans (Direct Drive)

Consult the factory for applications at operating conditions not in the following table and curves.

Variable Frequency Drive (VFD) controllers are recommended for operation and field balancing of units whether factory supplied and factory mounted, field supplied and factory mounted, or field supplied and field mounted.

In the direction of airflow, there must be space prior to the plug fan inlet. For sizes 02 - 06, the minimum requirement is either a Small Access (SAM) or a Medium Coil (MCM). For sizes 08 - 17, the minimum requirement is a Medium Access (MAM).

The section has internal Rubber-In-Shear (RIS) isolation.

## Fan Performance Data

**Table 8: Forward Curved Fan Performance Data**

| TSP<br>(in-wg) | Unit Size | 02         |      |      |      |      | 03   |      |      |      |      | 04   |      |      |      |      |      |
|----------------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 650  | 750  | 850  | 950  | 1050 | 950  | 1100 | 1250 | 1400 | 1550 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 3.5            | RPM       | —          | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 1793 |
|                | BHP       | —          | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 1.99 |
| 3.0            | RPM       | —          | —    | —    | —    | —    | —    | —    | —    | —    | —    | 1913 | —    | —    | —    | —    | 1663 |
|                | BHP       | —          | —    | —    | —    | —    | —    | —    | —    | —    | —    | 1.41 | —    | —    | —    | —    | 1.75 |
| 2.5            | RPM       | —          | —    | —    | —    | 1782 | —    | —    | —    | 1747 | 1753 | —    | —    | —    | —    | 1517 | 1526 |
|                | BHP       | —          | —    | —    | —    | 0.76 | —    | —    | —    | 1.06 | 1.21 | —    | —    | —    | —    | 1.30 | 1.51 |
| 2.0            | RPM       | —          | —    | —    | 1594 | 1605 | —    | —    | 1562 | 1567 | 1580 | —    | —    | 1357 | 1366 | 1383 |      |
|                | BHP       | —          | —    | —    | 0.55 | 0.63 | —    | —    | 0.75 | 0.87 | 1.01 | —    | —    | 0.92 | 1.09 | 1.29 |      |
| 1.5            | RPM       | —          | —    | 1382 | 1395 | 1415 | —    | 1353 | 1360 | 1375 | 1395 | —    | 1175 | 1186 | 1204 | 1231 |      |
|                | BHP       | —          | —    | 0.37 | 0.43 | 0.50 | —    | 0.50 | 0.59 | 0.70 | 0.82 | —    | 0.61 | 0.74 | 0.89 | 1.08 |      |
| 1.0            | RPM       | 1126       | 1136 | 1154 | 1181 | 1215 | 1107 | 1117 | 1136 | 1161 | 1195 | 962  | 976  | 1000 | 1035 | *    |      |
|                | BHP       | 0.18       | 0.22 | 0.27 | 0.32 | 0.39 | 0.29 | 0.36 | 0.43 | 0.52 | 0.63 | 0.35 | 0.44 | 0.56 | 0.71 | *    |      |
| 0.5            | RPM       | 829        | 863  | 904  | *    | *    | 814  | 846  | *    | *    | *    | 718  | *    | *    | *    | *    |      |
|                | BHP       | 0.10       | 0.14 | 0.18 | *    | *    | 0.17 | 0.22 | *    | *    | *    | 0.22 | *    | *    | *    | *    |      |

| TSP<br>(in-wg) | Unit Size | 06         |      |      |      |      | 08   |      |      |      |      | 10   |      |      |      |      |
|----------------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 1900 | 2200 | 2500 | 2800 | 3100 | 2400 | 2800 | 3200 | 3600 | 4000 | 3100 | 3600 | 4100 | 4600 |
| 3.5            | RPM       | —          | —    | —    | —    | 1482 | —    | —    | —    | —    | 1490 | —    | —    | 1234 | 1239 | 1245 |
|                | BHP       | —          | —    | —    | —    | 2.80 | —    | —    | —    | —    | 3.70 | —    | —    | 3.50 | 4.07 | 4.70 |
| 3.0            | RPM       | —          | —    | —    | 1371 | 1376 | —    | —    | —    | 1379 | 1384 | —    | 1141 | 1145 | 1151 | 1160 |
|                | BHP       | —          | —    | —    | 2.14 | 2.48 | —    | —    | —    | 2.83 | 3.27 | —    | 2.60 | 3.07 | 3.59 | 4.18 |
| 2.5            | RPM       | —          | —    | 1251 | 1256 | 1264 | —    | —    | —    | 1263 | 1273 | —    | 1044 | 1049 | 1057 | 1070 |
|                | BHP       | —          | —    | 1.58 | 1.85 | 2.16 | —    | —    | —    | 2.44 | 2.85 | —    | 2.22 | 2.64 | 3.12 | 3.68 |
| 2.0            | RPM       | —          | —    | 1123 | 1132 | 1143 | —    | —    | 1129 | 1139 | 1155 | 933  | 938  | 945  | 958  | 975  |
|                | BHP       | —          | —    | 1.32 | 1.57 | 1.85 | —    | —    | 1.73 | 2.06 | 2.44 | 1.51 | 1.84 | 2.22 | 2.67 | 3.19 |
| 1.5            | RPM       | —          | 973  | 983  | 995  | 1010 | —    | 978  | 990  | 1007 | 1028 | 812  | 820  | 833  | 852  | 875  |
|                | BHP       | —          | 0.88 | 1.07 | 1.29 | 1.53 | —    | 1.14 | 1.39 | 1.69 | 2.04 | 1.18 | 1.47 | 1.82 | 2.23 | 2.71 |
| 1.0            | RPM       | 798        | 809  | 823  | 842  | *    | 801  | 816  | 835  | 858  | *    | 673  | 689  | 711  | *    | *    |
|                | BHP       | 0.52       | 0.65 | 0.81 | 1.00 | *    | 0.66 | 0.85 | 1.07 | 1.33 | *    | 0.87 | 1.12 | 1.43 | *    | *    |
| 0.5            | RPM       | 590        | *    | *    | *    | *    | 598  | *    | *    | *    | *    | *    | *    | *    | *    | *    |
|                | BHP       | 0.32       | *    | *    | *    | *    | 0.42 | *    | *    | *    | *    | *    | *    | *    | *    | *    |

Continued on next page . . .

| TSP<br>(in-wg) | Unit Size | 12         |      |      |        |      | 14   |      |      |      |      | 17   |      |      |      |      |
|----------------|-----------|------------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 3900 | 4600 | 5300   | 6000 | 6700 | 4600 | 5400 | 6200 | 7000 | 7800 | 5200 | 6200 | 7200 | 8200 |
| 3.5            | RPM       | —          | —    | —    | 1065   | 1068 | —    | —    | —    | 1077 | 1081 | —    | —    | 1078 | 1084 | 1094 |
|                | BHP       | —          | —    | —    | 5.13   | 5.94 | —    | —    | —    | 6.59 | 7.55 | —    | —    | 6.82 | 8.06 | 9.49 |
| 3.0            | RPM       | —          | —    | —    | 987    | 994  | —    | —    | —    | 1000 | 1005 | —    | —    | 1001 | 1009 | 1021 |
|                | BHP       | —          | —    | —    | 4.50   | 5.28 | —    | —    | —    | 5.75 | 6.64 | —    | —    | 5.96 | 7.12 | 8.46 |
| 2.5            | RPM       | —          | —    | 901  | 906    | 915  | —    | —    | 911  | 917  | 925  | —    | 911  | 919  | 930  | 944  |
|                | BHP       | —          | —    | 3.28 | 3.90   | 4.63 | —    | —    | 4.21 | 4.93 | 5.75 | —    | 4.21 | 5.13 | 6.20 | 7.44 |
| 2.0            | RPM       | —          | 805  | 809  | 819    | 832  | —    | 814  | 819  | 827  | 838  | 814  | 819  | 830  | 844  | 862  |
|                | BHP       | —          | 2.25 | 2.74 | 3.32   | 3.99 | —    | 2.92 | 3.48 | 4.13 | 4.88 | 2.79 | 3.48 | 4.31 | 5.29 | 6.44 |
| 1.5            | RPM       | 697        | 701  | 711  | 724    | 741  | 705  | 710  | 718  | 729  | 743  | 708  | 718  | 733  | 751  | 773  |
|                | BHP       | 1.42       | 1.78 | 2.22 | 2.7500 | 3.35 | 1.86 | 2.28 | 2.78 | 3.36 | 4.03 | 2.17 | 2.78 | 3.52 | 4.40 | 5.45 |
| 1.0            | RPM       | 574        | 585  | 600  | 619    | *    | 581  | 591  | 604  | 620  | 638  | 588  | 604  | 624  | *    | *    |
|                | BHP       | 1.02       | 1.34 | 1.72 | 2.18   | *    | 1.31 | 1.67 | 2.09 | 2.60 | 3.19 | 1.57 | 2.09 | 2.74 | *    | *    |
| 0.5            | RPM       | 428        | *    | *    | *      | *    | 431  | 448  | *    | *    | *    | 444  | *    | *    | *    | *    |
|                | BHP       | 0.65       | *    | *    | *      | *    | 0.80 | 1.08 | *    | *    | *    | 1.00 | *    | *    | *    | *    |

**Note:** An asterisk (\*) indicates that you should contact the factory for more information.

**Table 9: Plug Fan Performance Data**

| TSP<br>(in-wg) | Unit Size | 02         |      |      |      |      | 03   |      |      |      |      | 04   |      |      |      |      |
|----------------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 450  | 650  | 850  | 1050 | 1250 | 650  | 900  | 1150 | 1400 | 1650 | 800  | 1150 | 1500 | 1850 |
| 4.5            | RPM       | 2870       | 2881 | 2950 | 3068 | 3246 | 2869 | 2877 | 2931 | 3017 | 3170 | 2868 | 2890 | 2974 | 3122 | 3318 |
|                | BHP       | 0.92       | 1.08 | 1.24 | 1.42 | 1.65 | 1.32 | 1.52 | 1.71 | 1.92 | 2.20 | 1.58 | 1.85 | 2.13 | 2.48 | 2.91 |
| 4.0            | RPM       | 2704       | 2725 | 2805 | 2946 | 3135 | 2703 | 2721 | 2786 | 2891 | 3048 | 2701 | 2734 | 2829 | 3000 | 3218 |
|                | BHP       | 0.79       | 0.93 | 1.07 | 1.25 | 1.47 | 1.13 | 1.31 | 1.48 | 1.68 | 1.94 | 1.36 | 1.59 | 1.85 | 2.19 | 2.63 |
| 3.5            | RPM       | 2527       | 2559 | 2651 | 2816 | 3028 | 2526 | 2555 | 2632 | 2761 | 2927 | 2524 | 2572 | 2683 | 2870 | 3111 |
|                | BHP       | 0.67       | 0.79 | 0.91 | 1.08 | 1.31 | 0.96 | 1.10 | 1.26 | 1.46 | 1.70 | 1.15 | 1.35 | 1.59 | 1.89 | 2.34 |
| 3.0            | RPM       | 2336       | 2387 | 2499 | 2677 | 2913 | 2336 | 2380 | 2466 | 2622 | 2812 | 2340 | 2406 | 2543 | 2748 | 2996 |
|                | BHP       | 0.55       | 0.65 | 0.77 | 0.92 | 1.15 | 0.79 | 0.91 | 1.05 | 1.24 | 1.49 | 0.94 | 1.12 | 1.34 | 1.65 | 2.04 |
| 2.5            | RPM       | 2139       | 2207 | 2347 | 2552 | 2788 | 2141 | 2199 | 2313 | 2479 | 2687 | 2146 | 2226 | 2391 | 2622 | 2871 |
|                | BHP       | 0.44       | 0.52 | 0.63 | 0.79 | 0.98 | 0.62 | 0.73 | 0.86 | 1.03 | 1.27 | 0.75 | 0.90 | 1.10 | 1.40 | 1.74 |
| 2.0            | RPM       | 1924       | 2007 | 2179 | 2413 | 2660 | 1926 | 2000 | 2145 | 2340 | 2549 | 1931 | 2037 | 2236 | 2484 | 2759 |
|                | BHP       | 0.33       | 0.40 | 0.50 | 0.65 | 0.83 | 0.47 | 0.56 | 0.68 | 0.85 | 1.04 | 0.56 | 0.69 | 0.89 | 1.15 | 1.54 |
| 1.5            | RPM       | 1683       | 1810 | 2020 | 2257 | 2542 | 1687 | 1797 | 1975 | 2183 | 2420 | 1698 | 1846 | 2079 | 2343 | 2641 |
|                | BHP       | 0.23       | 0.29 | 0.39 | 0.50 | 0.71 | 0.32 | 0.40 | 0.52 | 0.66 | 0.88 | 0.39 | 0.51 | 0.69 | 0.94 | 1.31 |
| 1.0            | RPM       | 1415       | 1597 | 1833 | 2117 | 2401 | 1419 | 1580 | 1788 | 2029 | 2280 | 1433 | 1644 | 1904 | 2202 | 2500 |
|                | BHP       | 0.14       | 0.19 | 0.27 | 0.41 | 0.55 | 0.20 | 0.27 | 0.36 | 0.52 | 0.69 | 0.24 | 0.35 | 0.51 | 0.75 | 0.99 |
| 0.5            | RPM       | 1118       | 1366 | 1650 | 1940 | 2239 | 1128 | 1345 | 1595 | 1848 | 2112 | 1153 | 1422 | 1721 | 2030 | 2344 |
|                | BHP       | 0.07       | 0.11 | 0.18 | 0.28 | 0.40 | 0.10 | 0.15 | 0.24 | 0.34 | 0.50 | 0.12 | 0.21 | 0.33 | 0.52 | 0.75 |

| TSP<br>(in-wg) | UNIT SIZE | 06         |      |      |      |      | 08   |      |      |      |      | 10   |      |      |      |      |
|----------------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 1200 | 1700 | 2200 | 2700 | 3200 | 1600 | 2300 | 3000 | 3700 | 4400 | 1900 | 2800 | 3700 | 4600 |
| 4.5            | RPM       | —          | —    | 2074 | 2056 | 2081 | 1605 | —    | 1728 | 1755 | 1812 | —    | —    | 1727 | 1754 | 1812 |
|                | BHP       | —          | —    | 3.25 | 3.55 | 3.89 | 2.65 | —    | 3.99 | 4.47 | 5.10 | —    | —    | 4.95 | 5.57 | 6.38 |
| 4.0            | RPM       | —          | —    | 1946 | 1944 | 1979 | 1520 | 1646 | 1633 | 1670 | 1733 | —    | 1650 | 1632 | 1669 | 1733 |
|                | BHP       | —          | —    | 2.79 | 3.06 | 3.40 | 2.29 | 3.06 | 3.44 | 3.91 | 4.49 | —    | 3.79 | 4.27 | 4.87 | 5.61 |
| 3.5            | RPM       | —          | —    | 1810 | 1823 | 1871 | 1429 | 1532 | 1532 | 1581 | 1649 | —    | 1535 | 1531 | 1579 | 1649 |
|                | BHP       | —          | —    | 2.35 | 2.59 | 2.93 | 1.95 | 2.57 | 2.90 | 3.37 | 3.89 | —    | 3.18 | 3.61 | 4.19 | 4.86 |
| 3.0            | RPM       | —          | 1700 | 1679 | 1707 | 1763 | 1332 | 1410 | 1432 | 1490 | 1572 | —    | 1413 | 1429 | 1488 | 1572 |
|                | BHP       | —          | 1.73 | 1.93 | 2.17 | 2.47 | 1.61 | 2.11 | 2.42 | 2.85 | 3.37 | —    | 2.61 | 3.00 | 3.54 | 4.21 |
| 2.5            | RPM       | —          | 1541 | 1539 | 1581 | 1645 | 1226 | 1289 | 1326 | 1391 | 1488 | —    | 1288 | 1323 | 1389 | 1488 |
|                | BHP       | —          | 1.37 | 1.54 | 1.76 | 2.03 | 1.29 | 1.67 | 1.97 | 2.34 | 2.83 | —    | 2.07 | 2.44 | 2.91 | 3.54 |
| 2.0            | RPM       | —          | 1368 | 1394 | 1451 | 1531 | 1166 | 1159 | 1214 | 1299 | 1407 | —    | 1158 | 1211 | 1296 | 1407 |
|                | BHP       | —          | 1.03 | 1.18 | 1.38 | 1.63 | 1.07 | 1.26 | 1.54 | 1.89 | 2.39 | —    | 1.56 | 1.90 | 2.35 | 2.99 |
| 1.5            | RPM       | 1202       | 1192 | 1238 | 1313 | 1411 | 998  | 1025 | 1096 | 1200 | 1320 | 1002 | 1021 | 1091 | 1197 | 1320 |
|                | BHP       | 0.61       | 0.71 | 0.85 | 1.03 | 1.27 | 0.74 | 0.91 | 1.14 | 1.48 | 1.93 | 0.91 | 1.11 | 1.41 | 1.84 | 2.42 |
| 1.0            | RPM       | 967        | 999  | 1071 | 1172 | 1288 | 817  | 876  | 976  | 1098 | 1229 | 817  | 870  | 970  | 1094 | 1229 |
|                | BHP       | 0.36       | 0.44 | 0.56 | 0.73 | 0.94 | 0.44 | 0.58 | 0.80 | 1.11 | 1.49 | 0.54 | 0.71 | 0.98 | 1.37 | 1.87 |
| 0.5            | RPM       | 706        | 784  | 895  | 1021 | 1159 | 617  | 720  | 848  | 992  | 1140 | 609  | 710  | 841  | 987  | 1140 |
|                | BHP       | 0.16       | 0.22 | 0.32 | 0.45 | 0.67 | 0.20 | 0.32 | 0.50 | 0.80 | 1.14 | 0.24 | 0.38 | 0.61 | 0.98 | 1.43 |

Continued on next page . . .

| TSP<br>(in-wg) | Unit Size | 12         |      |      |        |      | 14   |      |      |      |      | 17   |      |      |      |      |
|----------------|-----------|------------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|
|                |           | Actual CFM | 2600 | 3800 | 5000   | 6200 | 7400 | 2900 | 4300 | 5700 | 7100 | 8500 | 3400 | 4800 | 6200 | 7600 |
| 4.5            | RPM       | 1576       | 1604 | 1592 | 1584   | 1645 | 1584 | 1613 | 1563 | 1625 | 1722 | 1413 | 1436 | 1426 | 1413 | 1460 |
|                | BHP       | 3.98       | 5.04 | 5.93 | 6.72   | 7.79 | 4.25 | 5.47 | 6.32 | 7.47 | 8.95 | 5.11 | 6.34 | 7.38 | 8.28 | 9.47 |
| 4.0            | RPM       | 1490       | 1516 | 1484 | 1508   | 1581 | 1498 | 1524 | 1488 | 1560 | 1661 | 1336 | 1357 | 1330 | 1345 | 1402 |
|                | BHP       | 3.46       | 4.39 | 5.09 | 5.88   | 6.92 | 3.69 | 4.77 | 5.53 | 6.64 | 8.02 | 4.44 | 5.53 | 6.34 | 7.25 | 8.42 |
| 3.5            | RPM       | 1398       | 1422 | 1378 | 1429   | 1512 | 1406 | 1411 | 1407 | 1491 | 1604 | 1254 | 1273 | 1231 | 1273 | 1341 |
|                | BHP       | 2.94       | 3.76 | 4.32 | 5.07   | 6.06 | 3.15 | 4.02 | 4.75 | 5.81 | 7.16 | 3.78 | 4.73 | 5.36 | 6.24 | 7.37 |
| 3.0            | RPM       | 1300       | 1316 | 1291 | 1355   | 1442 | 1307 | 1287 | 1320 | 1417 | 1541 | 1166 | 1176 | 1154 | 1205 | 1275 |
|                | BHP       | 2.45       | 3.13 | 3.62 | 4.35   | 5.24 | 2.63 | 3.30 | 4.00 | 4.98 | 6.26 | 3.15 | 3.93 | 4.50 | 5.33 | 6.32 |
| 2.5            | RPM       | 1192       | 1182 | 1197 | 1274   | 1375 | 1197 | 1167 | 1239 | 1348 | 1477 | 1068 | 1056 | 1069 | 1133 | 1215 |
|                | BHP       | 1.98       | 2.47 | 2.95 | 3.63   | 4.49 | 2.12 | 2.64 | 3.33 | 4.26 | 5.42 | 2.54 | 3.11 | 3.67 | 4.44 | 5.42 |
| 2.0            | RPM       | 1071       | 1042 | 1102 | 1192   | 1300 | 1076 | 1063 | 1150 | 1273 | 1424 | 960  | 934  | 984  | 1057 | 1148 |
|                | BHP       | 1.52       | 1.87 | 2.34 | 2.95   | 3.70 | 1.63 | 2.05 | 2.67 | 3.51 | 4.88 | 1.96 | 2.36 | 2.90 | 3.60 | 4.46 |
| 1.5            | RPM       | 933        | 924  | 1001 | 1107   | 1238 | 918  | 952  | 1062 | 1203 | 1364 | 831  | 828  | 893  | 981  | 1088 |
|                | BHP       | 1.09       | 1.35 | 1.75 | 2.3000 | 3.20 | 1.14 | 1.51 | 2.07 | 2.95 | 4.12 | 1.39 | 1.70 | 2.18 | 2.81 | 3.79 |
| 1.0            | RPM       | 736        | 797  | 898  | 1029   | 1167 | 746  | 835  | 971  | 1132 | 1175 | 661  | 716  | 801  | 909  | 1024 |
|                | BHP       | 0.65       | 0.89 | 1.23 | 1.83   | 2.50 | 0.70 | 1.02 | 1.55 | 2.33 | 2.82 | 0.83 | 1.12 | 1.53 | 2.21 | 2.99 |
| 0.5            | RPM       | 558        | 660  | 798  | 857    | 1023 | 579  | 718  | 788  | 982  | 1175 | 507  | 595  | 711  | 753  | 891  |
|                | BHP       | 0.30       | 0.48 | 0.82 | 1.00   | 1.00 | 0.34 | 0.62 | 1.00 | 1.00 | 1.00 | 0.40 | 0.62 | 1.01 | 1.25 | 1.25 |

## Fan Performance Curves

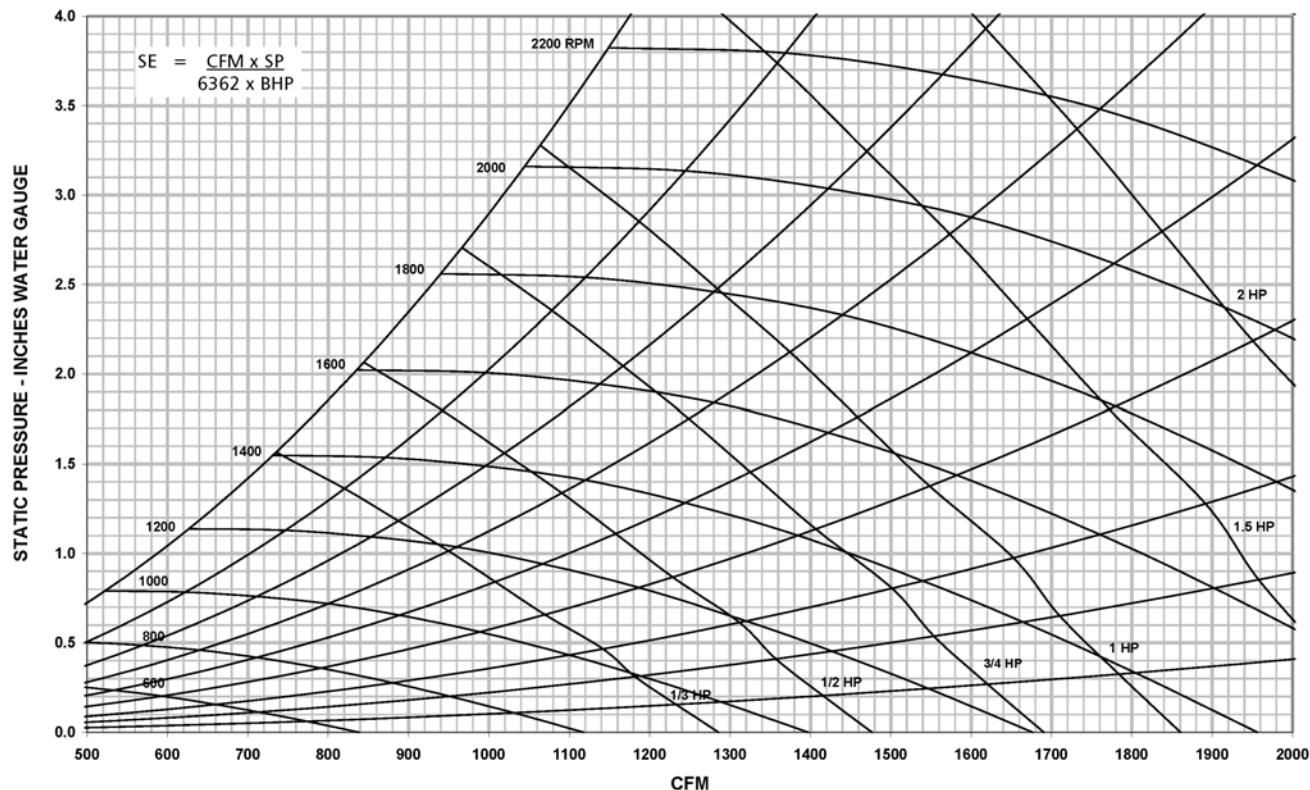


Figure 9: AMI02 (Fan 09-04 Class I)

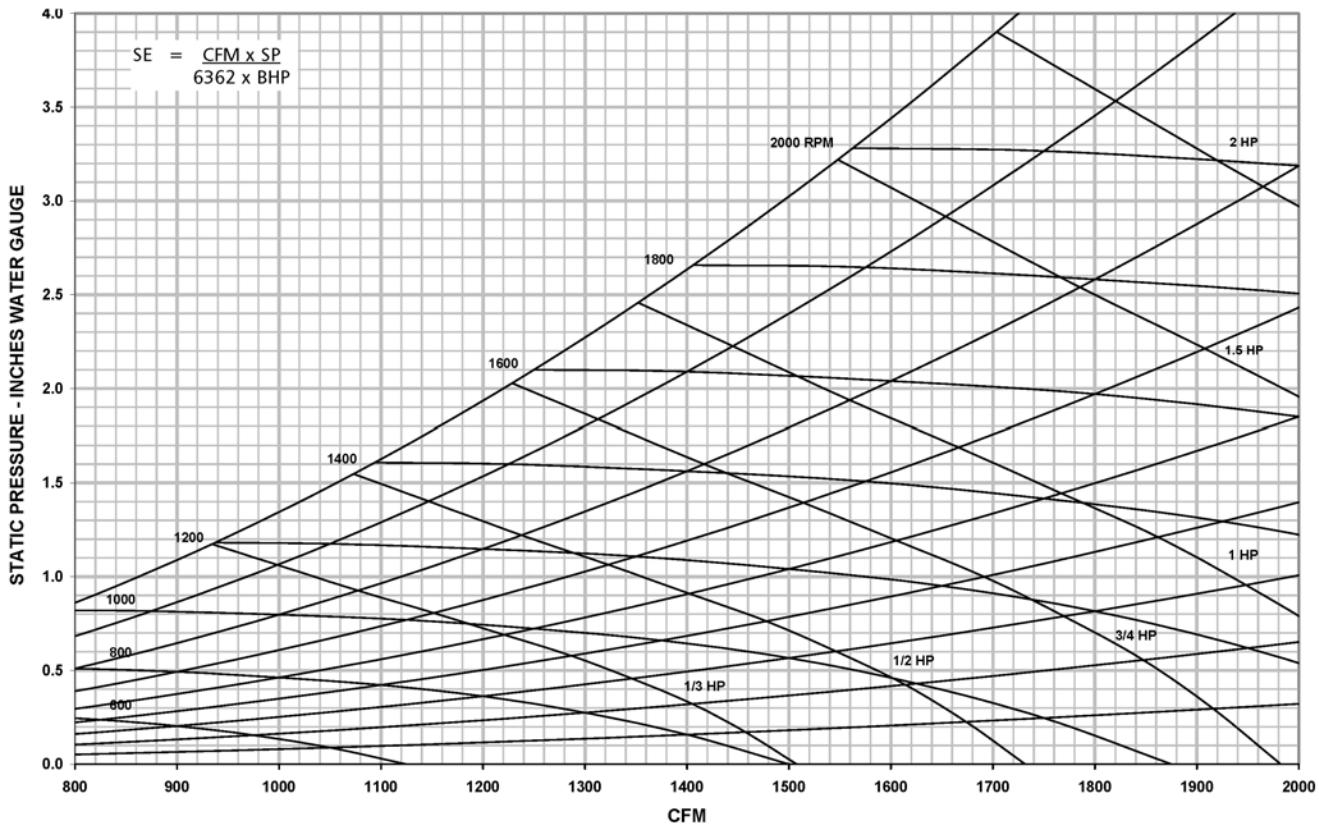


Figure 10: AMI03 (Fan 09-06 Class I)

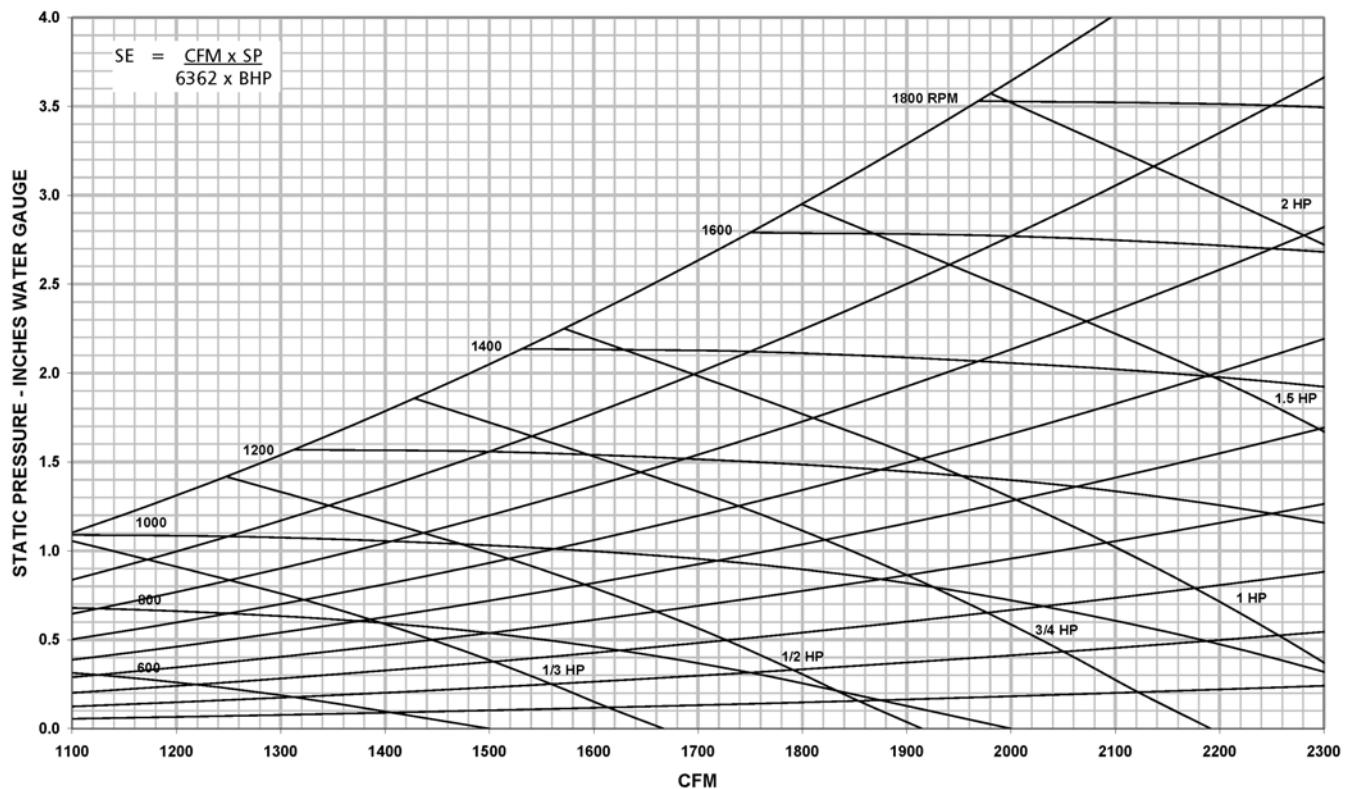


Figure 11: AMI04 (Fan 10-07 Class I)

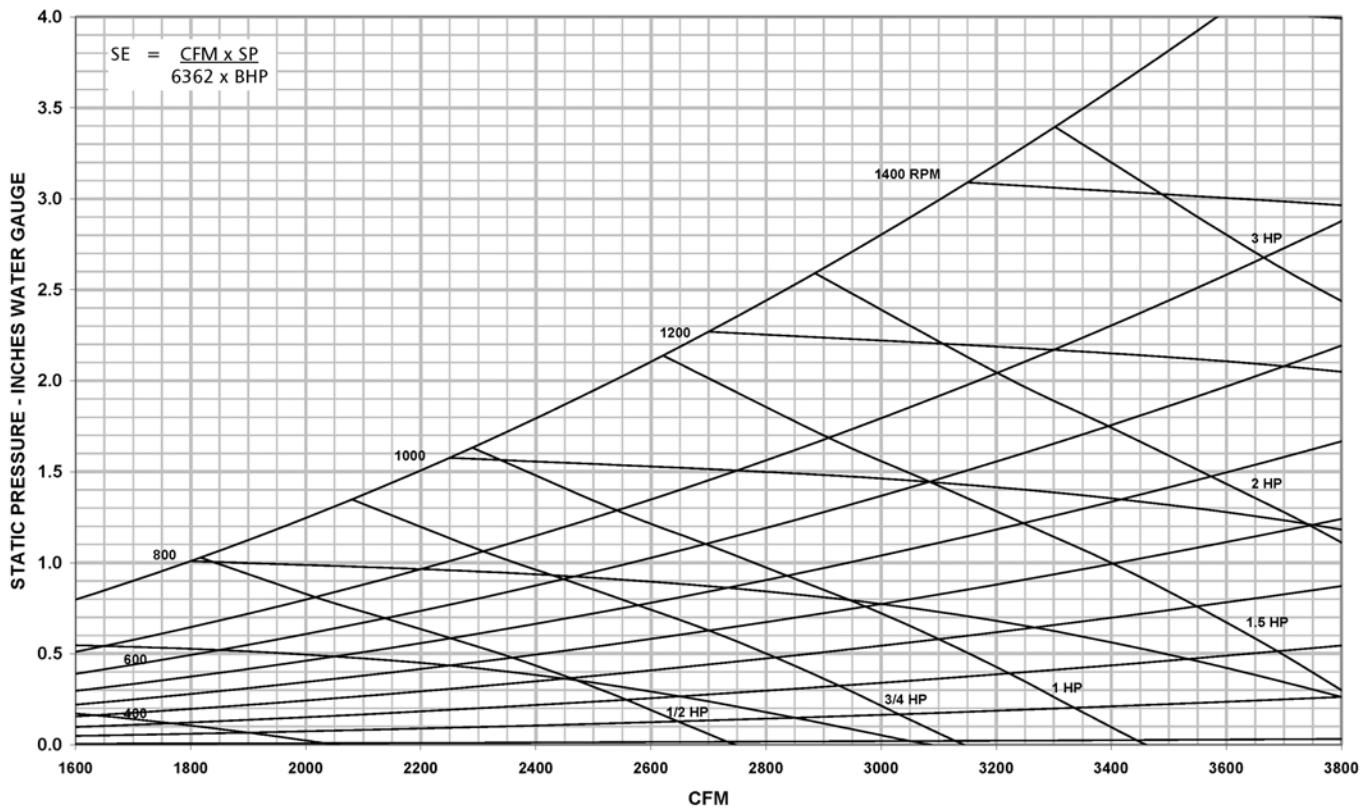


Figure 12: AMI06 (Fan 12-09 Class I)

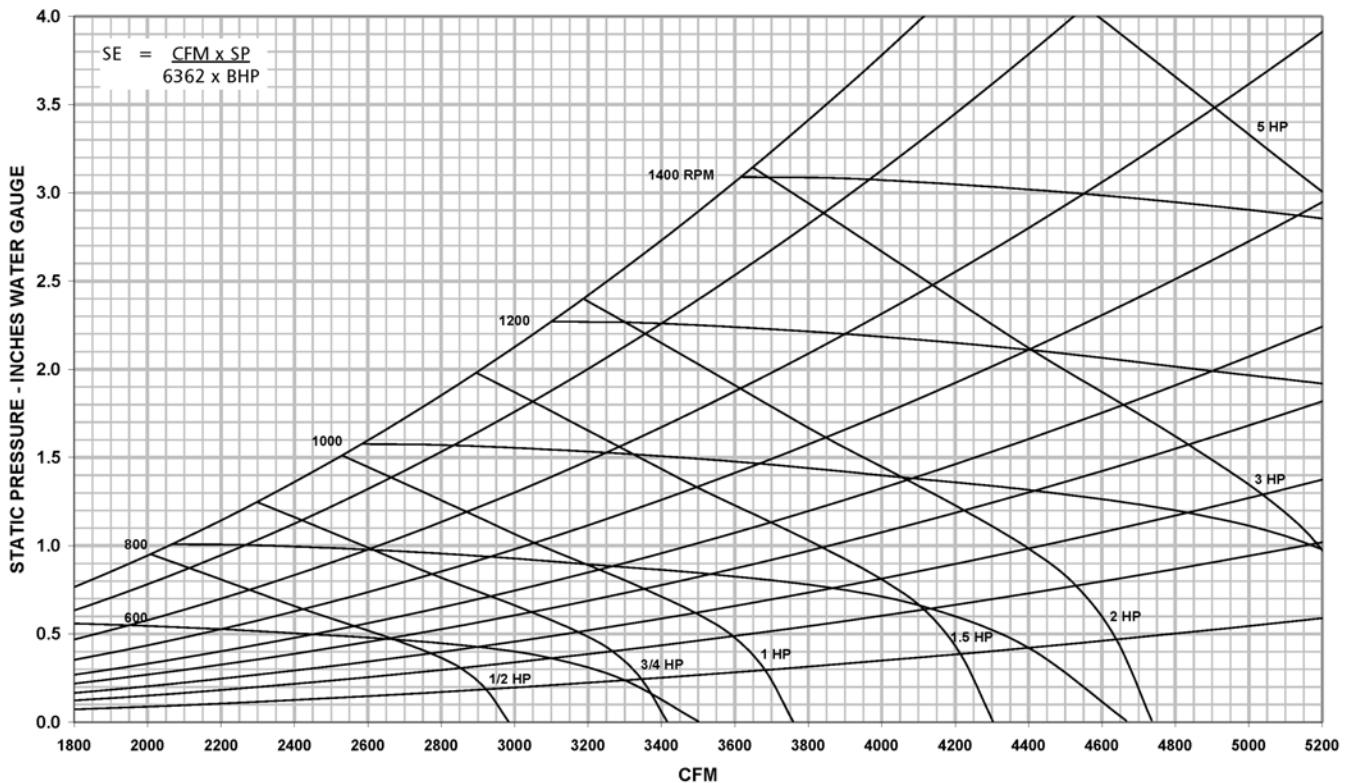


Figure 13: AMI08 (Fan 12-12 Class I)

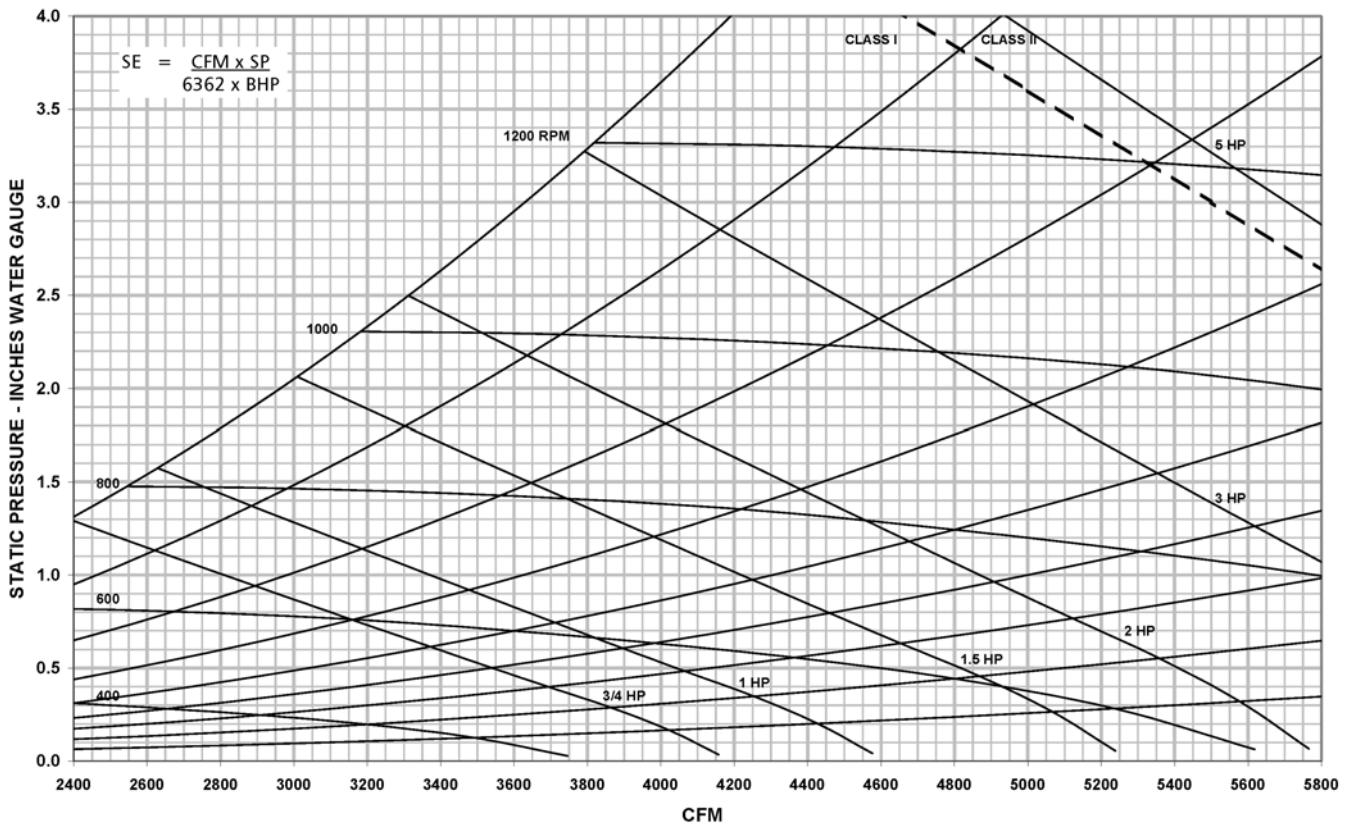


Figure 14: AMI10 (Fan 15-11 Class I and II)

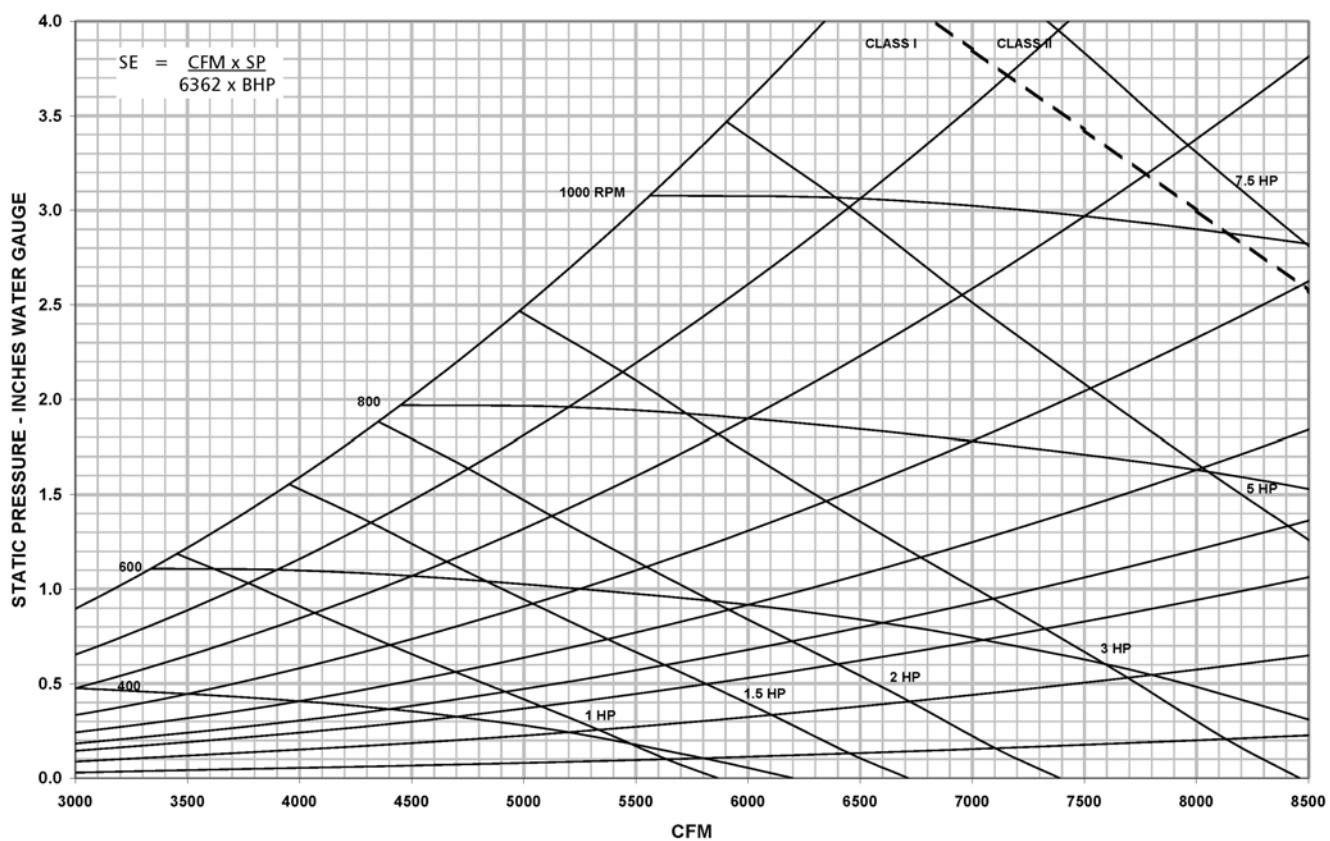


Figure 15: AMI12 (Fan 18-13 Class I and II)

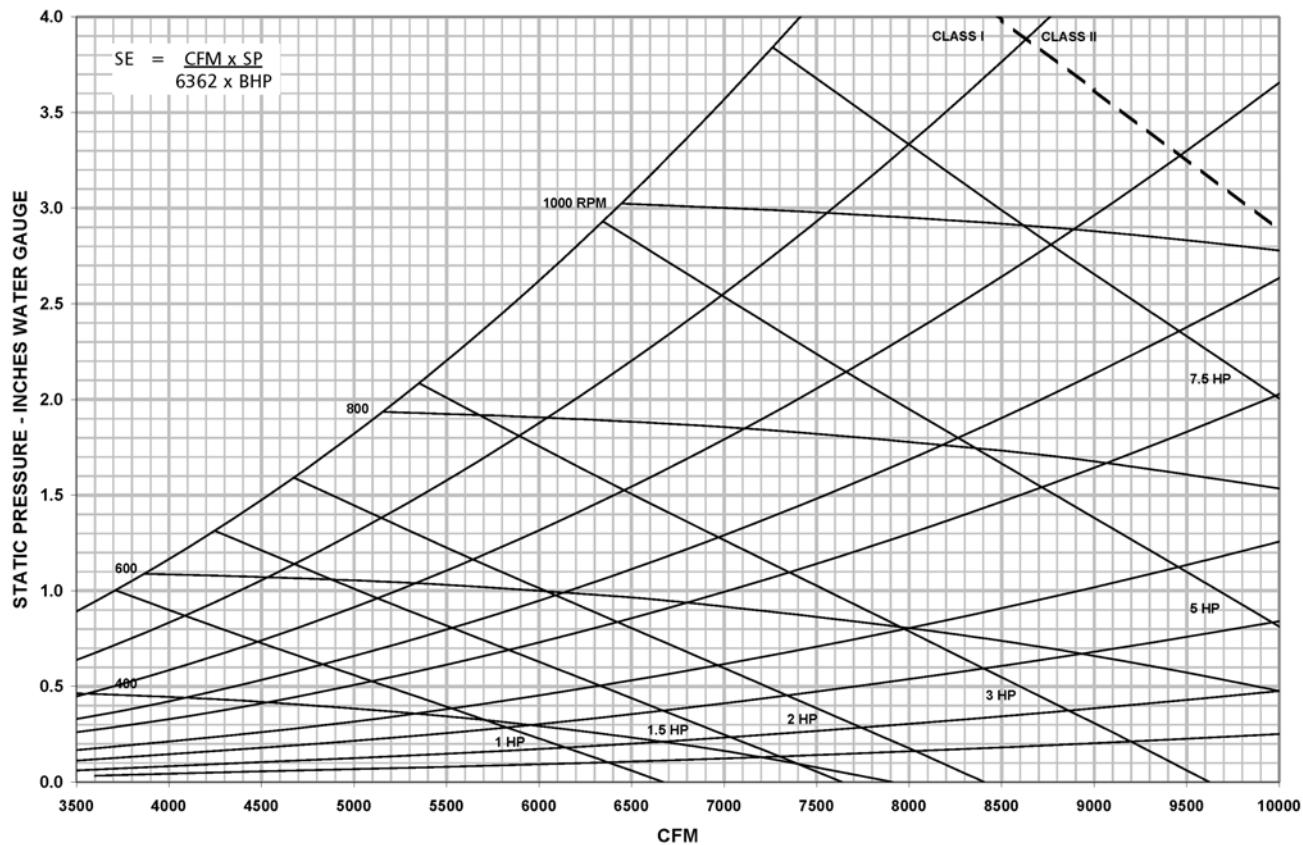


Figure 16: AMI14 (Fan 18-18 Class I and II)

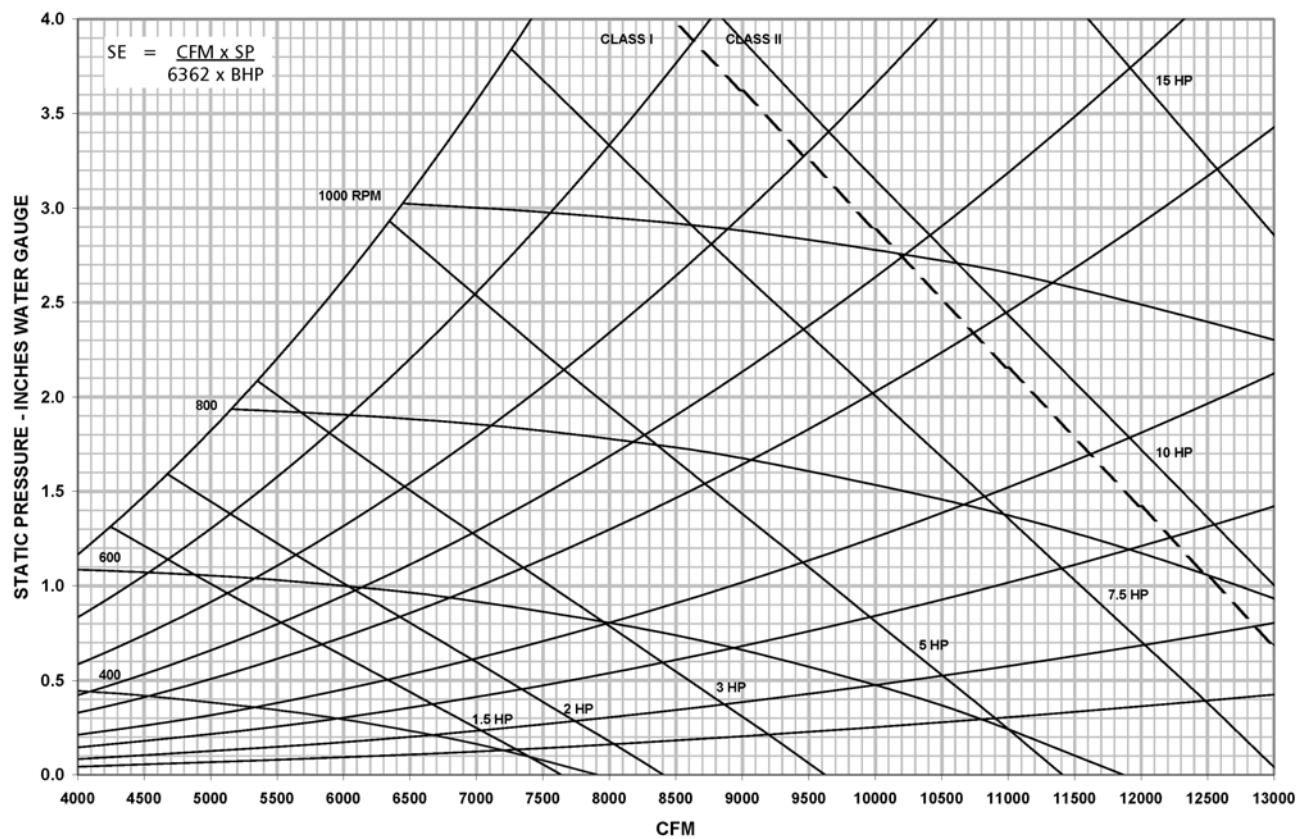


Figure 17: AMI17 (Fan 18-18 Class I and II)

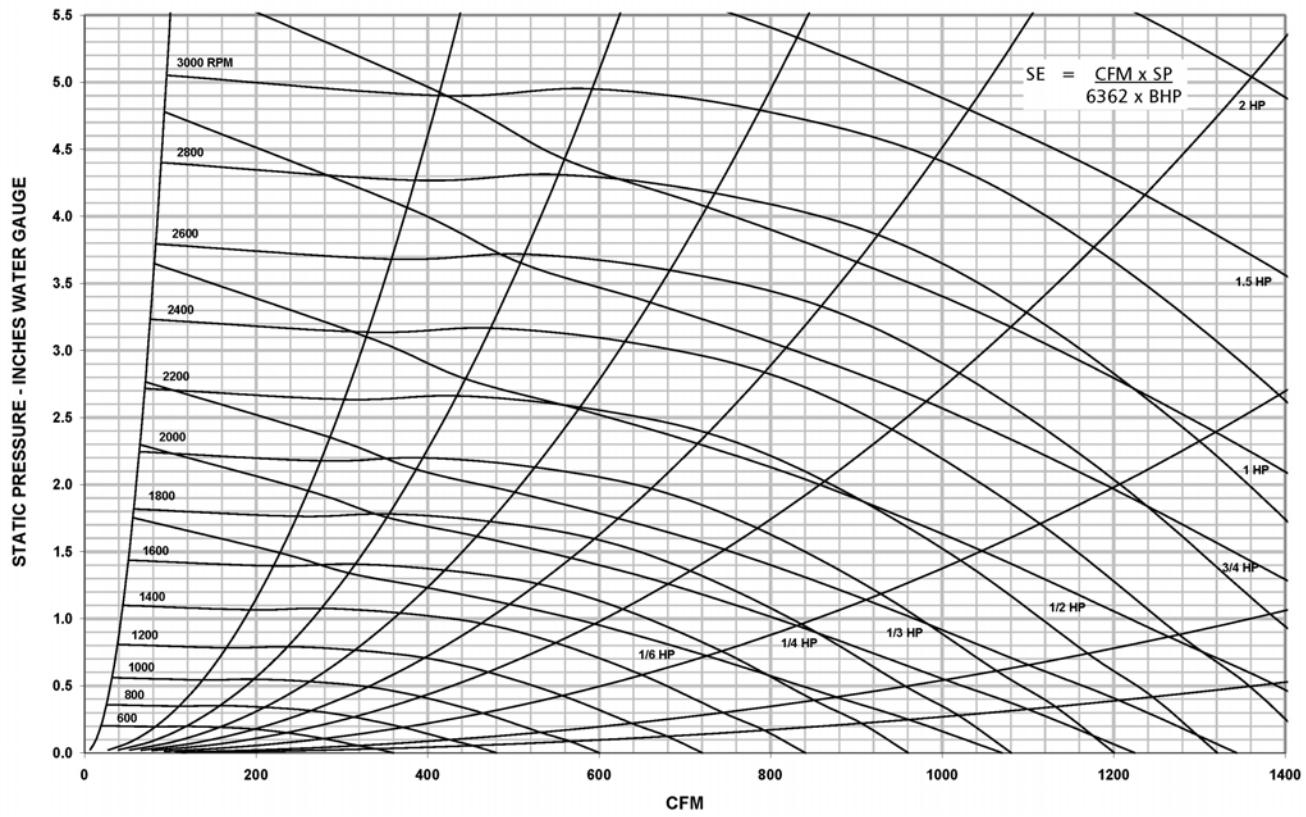


Figure 18: AMI02 Plug Fan

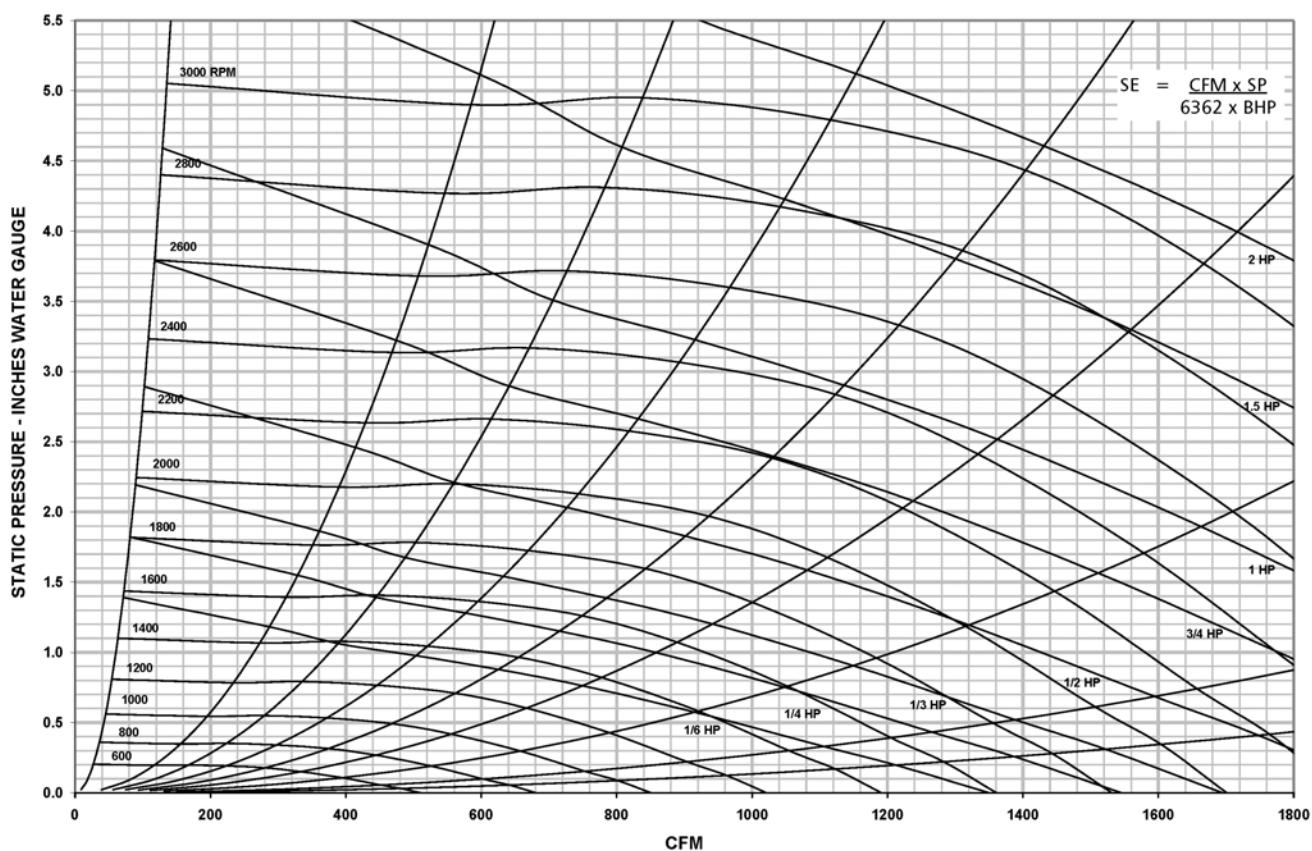


Figure 19: AMI03 Plug Fan

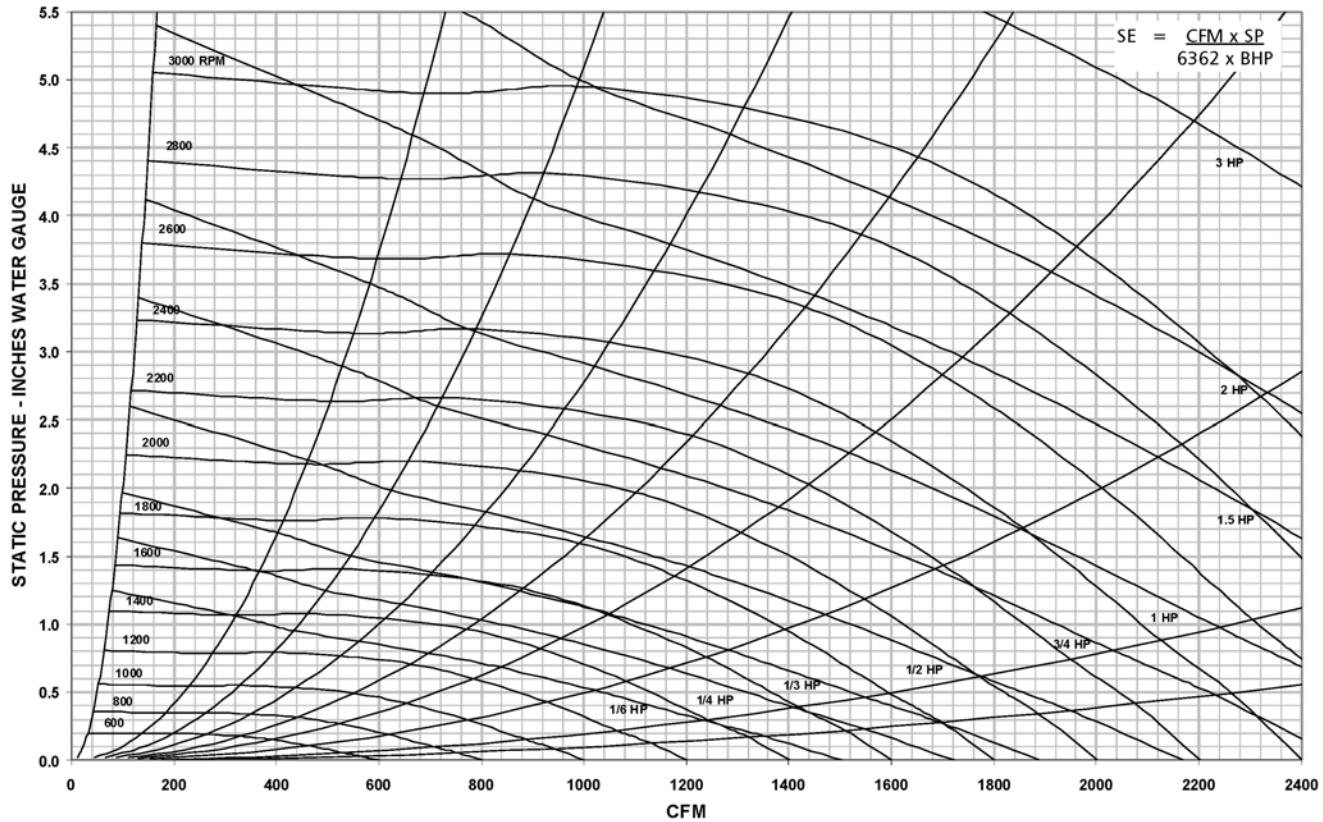


Figure 20: AMI04 Plug Fan

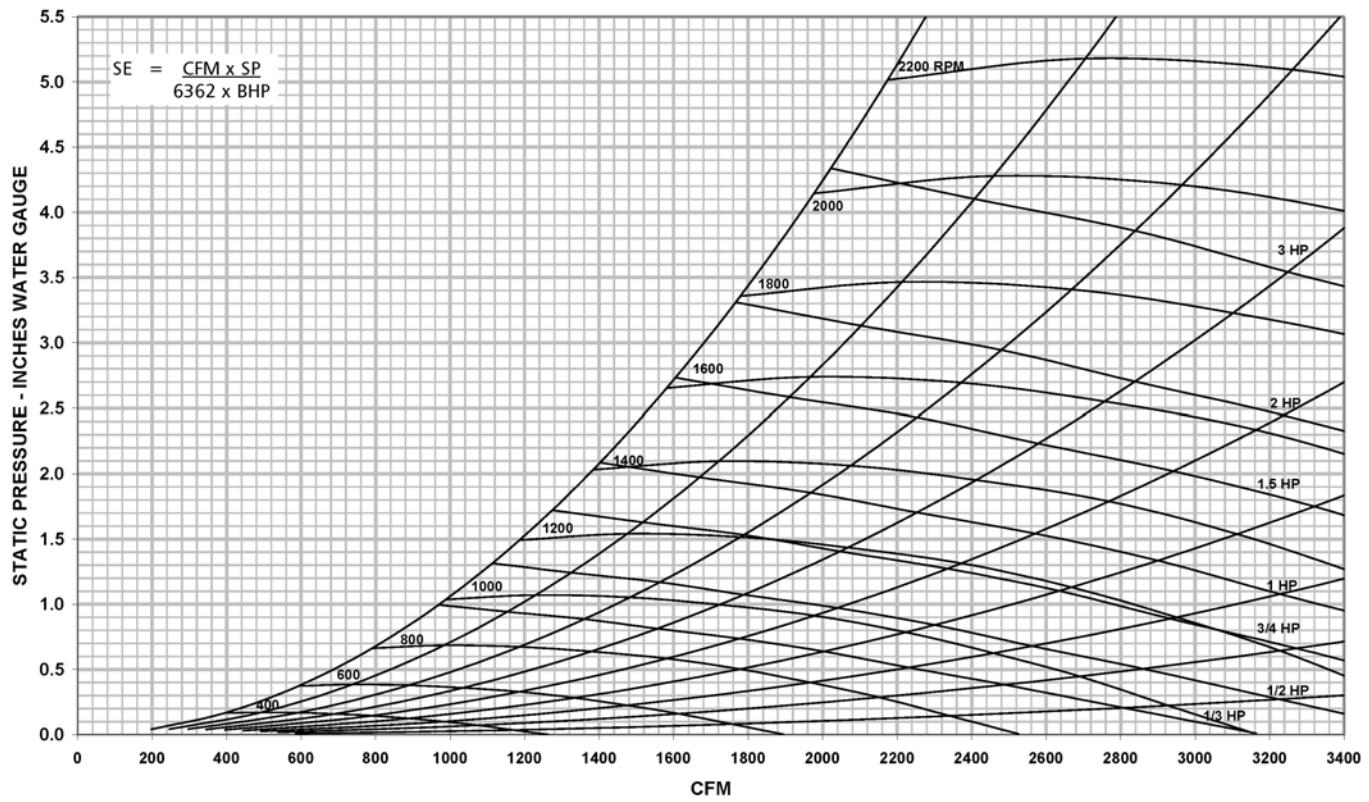


Figure 21: AMI06 Plug Fan

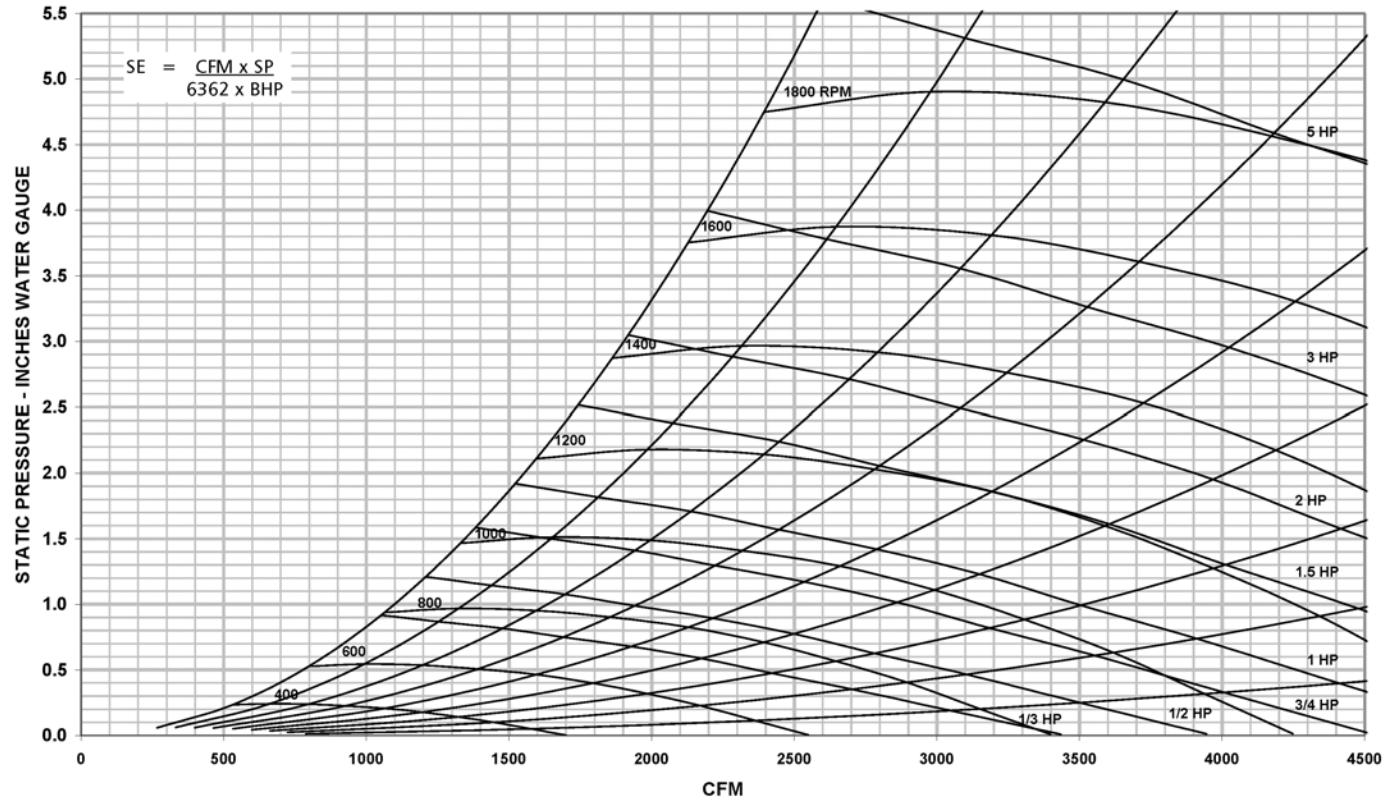


Figure 22: AMI08 Plug Fan

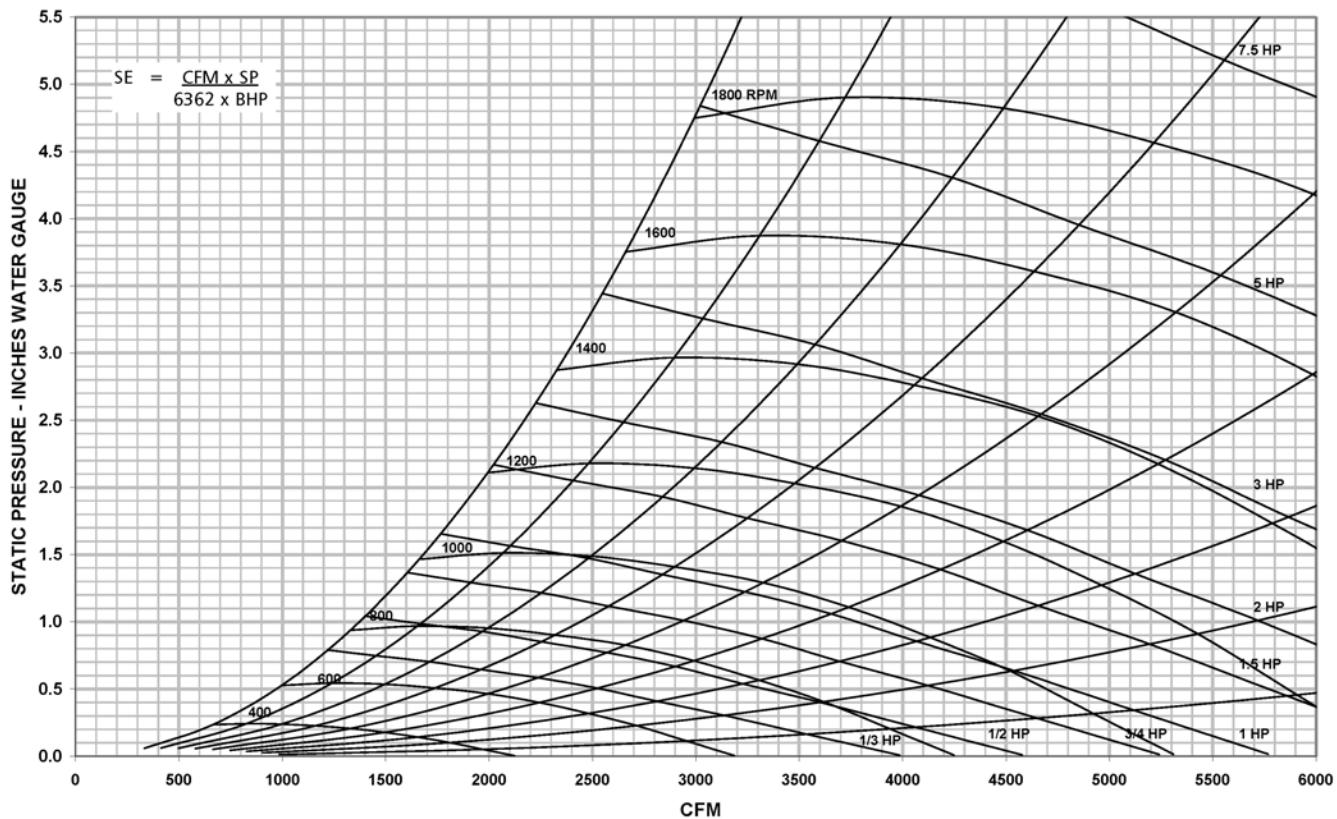


Figure 23: AMI10 Plug Fan

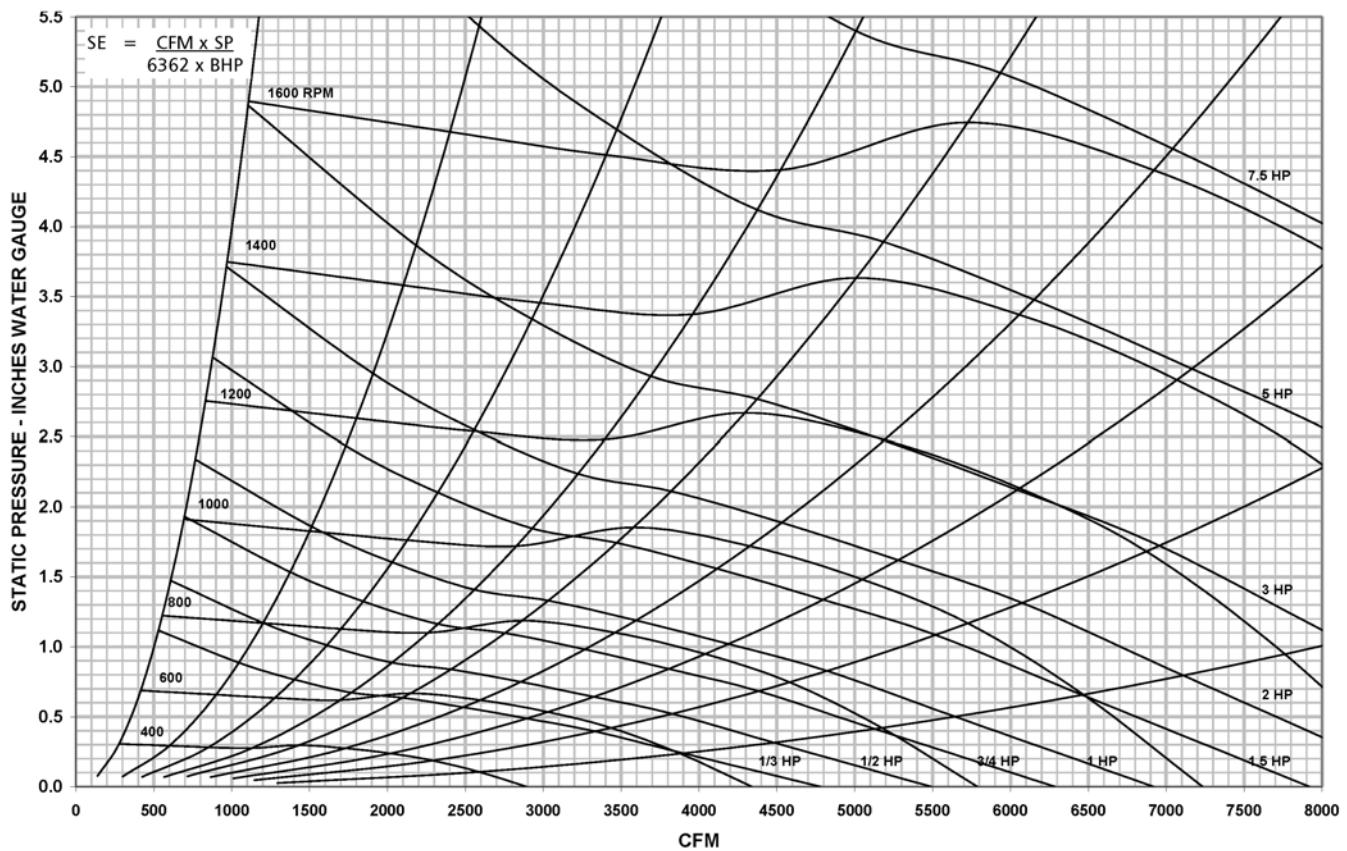
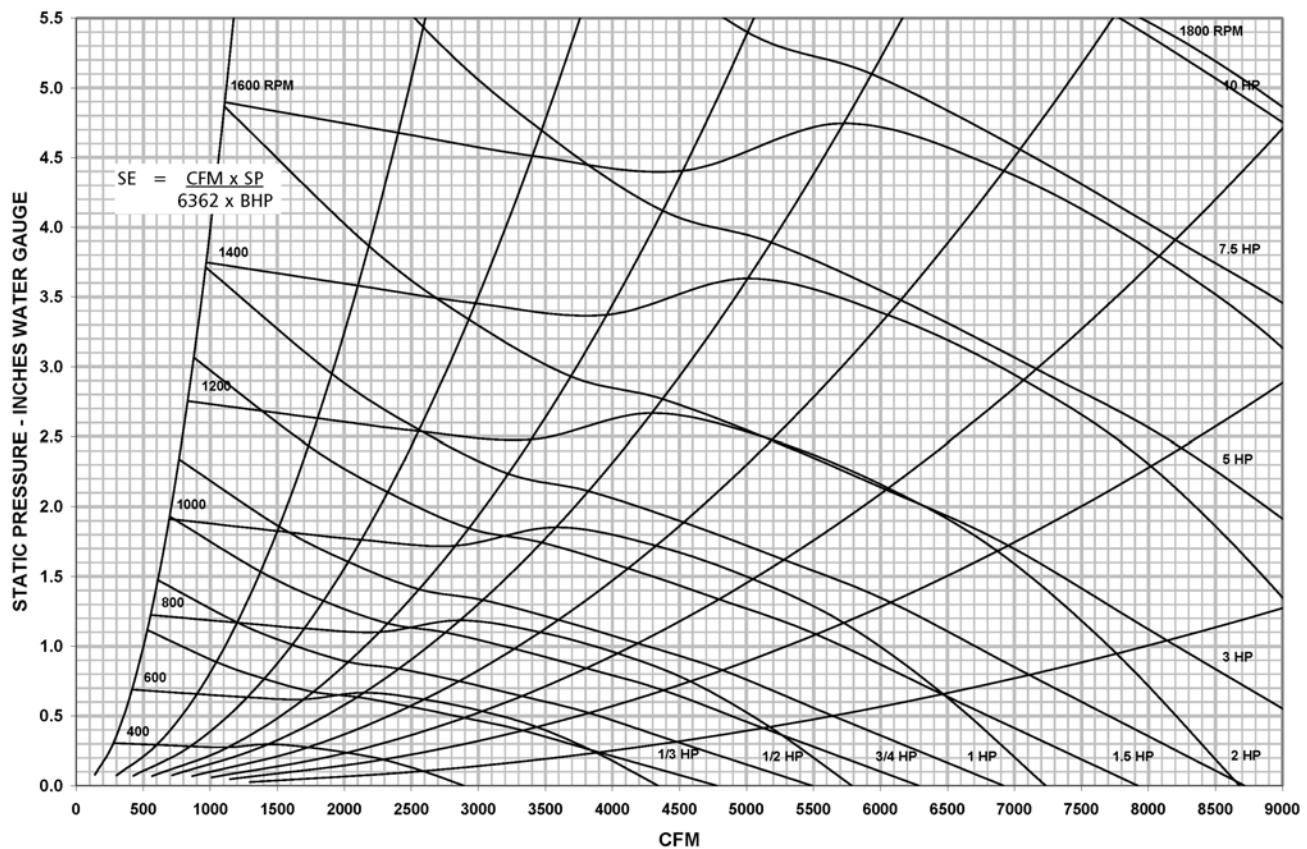
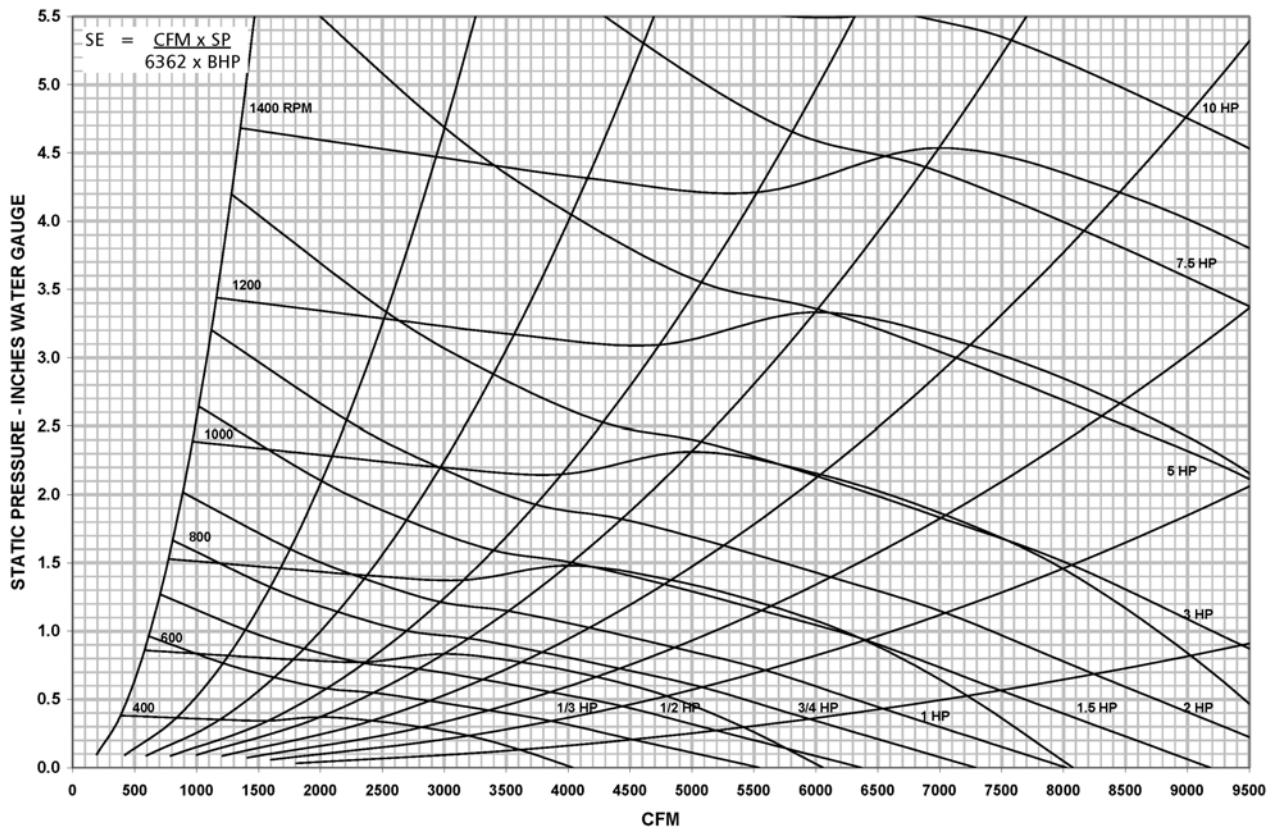


Figure 24: AMI12 Plug Fan



**Figure 25: AMI14 Plug Fan**



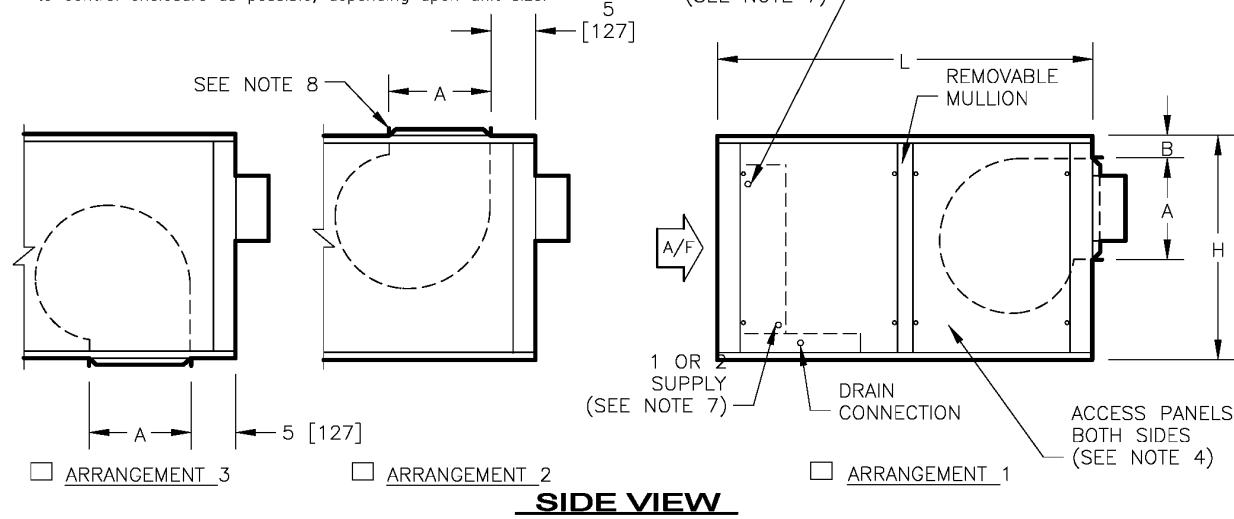
**Figure 26: AMI17 Plug Fan**

## Dimensional Data

Drawings are not to scale and are not for installation purposes.

### NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8$ " [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Motor/drive location specified left or right with air to back. Standard control enclosure location matches motor/drive position.
4. Panel with coil connection penetrations is not removable.
5. Weight does not include coil and motor weights.
6. Coil and drain connections specified left or right with air to back.
7. One coil shown. Each coil shall have a supply and return connection.
8. Duct collars shall be 1" [25] all around.
9. Alternate control enclosure and VFD locations are subjected to compliance with NEC 2002 Article 110.26 and are limited. Consult Factory for available alternate location by application.
10. Optional VFD will be located on the same side of the unit as control enclosure. VFD shall be mounted adjacent to or close to control enclosure as possible, depending upon unit size.

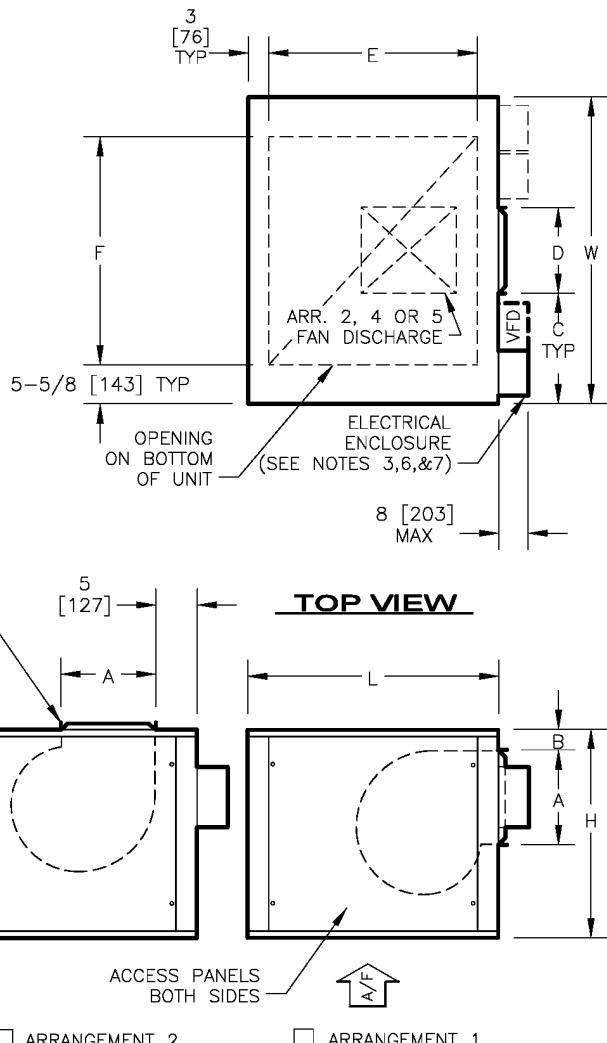


| DIMENSIONS - In [mm] |              |              |              |                 |                |                   |                 |                             | WEIGHT (NOTE 5)      |                      |
|----------------------|--------------|--------------|--------------|-----------------|----------------|-------------------|-----------------|-----------------------------|----------------------|----------------------|
| UNIT SIZE            | H            | W            | L            | A               | B              | C                 | D               | ACCESS PANEL H X W          | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02                   | 22<br>[559]  | 30<br>[762]  | 46<br>[1168] | 10-1/2<br>[267] | 2-3/8<br>[603] | 11-7/16<br>[291]  | 7-1/8<br>[181]  | 20 X 19<br>[508 X 483]      | 160<br>[73]          | 205<br>[93]          |
| 03                   | 22<br>[559]  | 36<br>[914]  | 46<br>[1168] | 10-1/2<br>[267] | 2-3/8<br>[603] | 13-3/4<br>[349]   | 8-1/2<br>[216]  | 20 X 19<br>[508 X 483]      | 170<br>[77]          | 220<br>[100]         |
| 04                   | 22<br>[559]  | 44<br>[1118] | 46<br>[1168] | 11-5/8<br>[295] | 2-3/8<br>[603] | 17-1/16<br>[433]  | 9-7/8<br>[251]  | 20 X 19<br>[508 X 483]      | 185<br>[84]          | 245<br>[111]         |
| 06                   | 30<br>[762]  | 44<br>[1118] | 50<br>[1270] | 13-3/4<br>[349] | 3<br>[76]      | 15-3/4<br>[400]   | 12-1/2<br>[318] | 28 X 21<br>[711 X 533]      | 220<br>[100]         | 295<br>[134]         |
| 08                   | 34<br>[864]  | 48<br>[1219] | 50<br>[1270] | 13-3/4<br>[349] | 3<br>[76]      | 16-1/16<br>[408]  | 15-7/8<br>[403] | 32 X 21<br>[813 X 533]      | 235<br>[107]         | 320<br>[145]         |
| 10                   | 34<br>[864]  | 58<br>[1473] | 50<br>[1270] | 16-1/8<br>[410] | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 14-7/8<br>[378] | 32 X 21<br>[813 X 533]      | 285<br>[130]         | 380<br>[173]         |
| 12                   | 44<br>[1118] | 66<br>[1676] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 24-3/16<br>[614]  | 17-5/8<br>[448] | 42 X 22-1/2<br>[1067 X 572] | 365<br>[166]         | 475<br>[216]         |
| 14                   | 44<br>[1118] | 70<br>[1778] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 23-15/16<br>[608] | 22-1/8<br>[562] | 42 X 22-1/2<br>[1067 X 572] | 375<br>[170]         | 490<br>[223]         |
| 17                   | 44<br>[1118] | 82<br>[2083] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 29-15/16<br>[760] | 22-1/8<br>[562] | 42 X 22-1/2<br>[1067 X 572] | 400<br>[182]         | 545<br>[248]         |

Figure 27: FC Fan and Coil Combination (FMC)

NOTES:

1. All dimensions are inches [millimeters].
2. All dimensions are  $\pm 1/8$ " [3mm]. All metric values are round to the nearest millimeter.
3. All drawings subject to change without prior notice.
3. Motor/drive location specified left or right with air to back. Standard control enclosure location matches motor/drive position.
4. Weight does not include motor weight.
5. Duct collars shall be 1" [25] all around.
6. Alternate control enclosure and VFD locations are subjected to compliance with NEC 2002 Article 110.26 and are limited. Consult Factory for available alternate location by application.
7. Optional VFD will be located on the same side of the unit as control enclosure. VFD shall be mounted adjacent to or close to control enclosure as possible, depending upon unit size.



ARRANGEMENT\_5

ARRANGEMENT\_4

ARRANGEMENT\_2

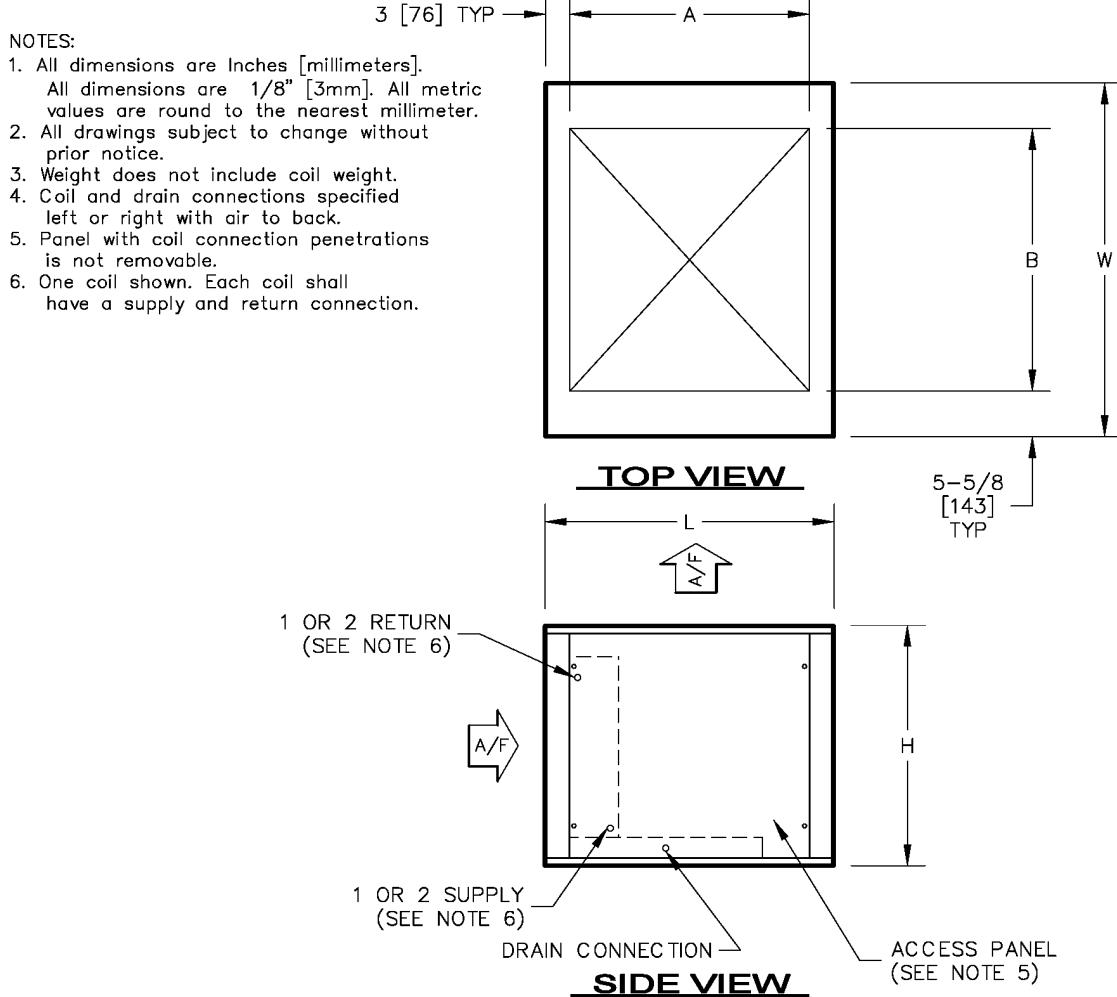
ARRANGEMENT\_1

**SIDE VIEW**

**DIMENSIONS - In [mm]**

| UNIT SIZE | H            | W            | L            | A               | B              | C                 | D               | E           | F                | ACCESS PANEL H X W      | WEIGHT (NOTE 4)      |                      |
|-----------|--------------|--------------|--------------|-----------------|----------------|-------------------|-----------------|-------------|------------------|-------------------------|----------------------|----------------------|
|           |              |              |              |                 |                |                   |                 |             |                  |                         | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02        | 22<br>[559]  | 30<br>[762]  | 32<br>[813]  | 10-1/2<br>[267] | 2-3/8<br>[603] | 11-7/16<br>[291]  | 7-1/8<br>[181]  | 26<br>[660] | 18-3/4<br>[476]  | 20 X 26<br>[508 X 660]  | 105<br>[48]          | 135<br>[61]          |
| 03        | 22<br>[559]  | 36<br>[914]  | 32<br>[813]  | 10-1/2<br>[267] | 2-3/8<br>[603] | 13-3/4<br>[349]   | 8-1/2<br>[216]  | 26<br>[660] | 24-3/4<br>[629]  | 20 X 26<br>[508 X 660]  | 120<br>[55]          | 150<br>[68]          |
| 04        | 22<br>[559]  | 44<br>[1118] | 32<br>[813]  | 11-5/8<br>[295] | 2-3/8<br>[603] | 17-1/16<br>[433]  | 9-7/8<br>[251]  | 26<br>[660] | 32-3/4<br>[832]  | 20 X 26<br>[508 X 660]  | 135<br>[61]          | 165<br>[75]          |
| 06        | 30<br>[762]  | 44<br>[1118] | 36<br>[914]  | 13-3/4<br>[349] | 3<br>[76]      | 15-3/4<br>[400]   | 12-1/2<br>[318] | 30<br>[762] | 32-3/4<br>[832]  | 28 X 30<br>[711 X 762]  | 175<br>[80]          | 220<br>[100]         |
| 08        | 34<br>[864]  | 48<br>[1219] | 36<br>[914]  | 13-3/4<br>[349] | 3<br>[76]      | 16-1/16<br>[408]  | 15-7/8<br>[403] | 30<br>[762] | 36-3/4<br>[933]  | 32 X 30<br>[813 X 762]  | 205<br>[93]          | 260<br>[118]         |
| 10        | 34<br>[864]  | 58<br>[1473] | 36<br>[914]  | 16-1/8<br>[410] | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 14-7/8<br>[378] | 30<br>[762] | 46-3/4<br>[1187] | 32 X 30<br>[813 X 762]  | 235<br>[107]         | 290<br>[132]         |
| 12        | 44<br>[1118] | 66<br>[1676] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 24-3/16<br>[614]  | 17-5/8<br>[448] | 34<br>[864] | 54-3/4<br>[1391] | 42 X 34<br>[1067 X 864] | 295<br>[134]         | 375<br>[170]         |
| 14        | 44<br>[1118] | 70<br>[1778] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 23-15/16<br>[608] | 22-1/8<br>[562] | 34<br>[864] | 58-3/4<br>[1492] | 42 X 34<br>[1067 X 864] | 310<br>[141]         | 390<br>[177]         |
| 17        | 44<br>[1118] | 82<br>[2083] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 29-15/16<br>[760] | 22-1/8<br>[562] | 34<br>[864] | 70-3/4<br>[1797] | 42 X 34<br>[1067 X 864] | 370<br>[168]         | 455<br>[209]         |

Figure 28: Vertical FC Fan (VFM)

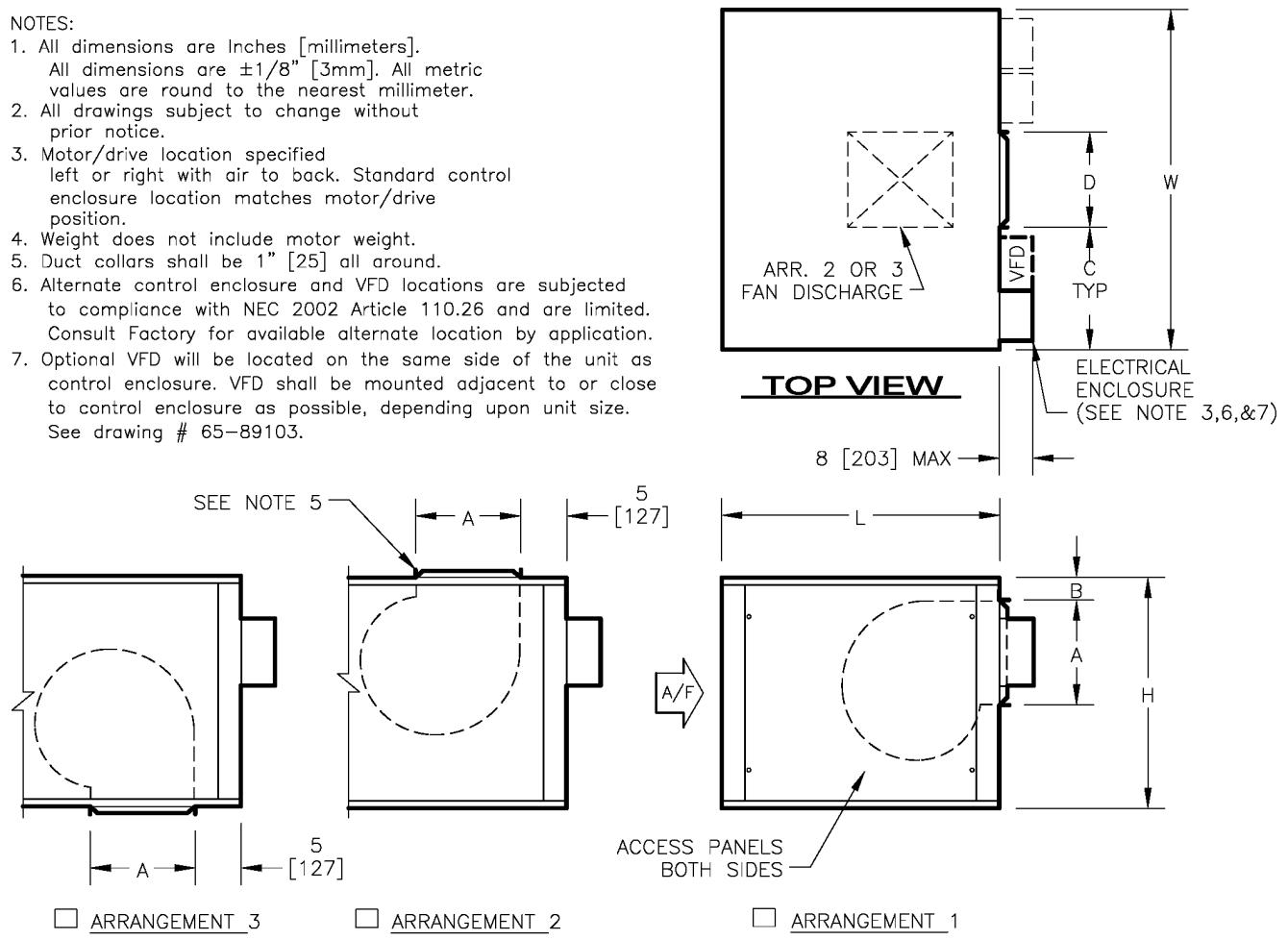


| <b>DIMENSIONS - In [mm]</b> |              |              |              |             |                  |                         | WEIGHT (NOTE 3)      |                      |
|-----------------------------|--------------|--------------|--------------|-------------|------------------|-------------------------|----------------------|----------------------|
| UNIT SIZE                   | H            | W            | L            | A           | B                | ACCESS PANEL H X W      | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 32<br>[813]  | 26<br>[660] | 18-3/4<br>[476]  | 20 X 26<br>[508 X 660]  | 100<br>[45]          | 130<br>[59]          |
| 03                          | 22<br>[559]  | 36<br>[914]  | 32<br>[813]  | 26<br>[660] | 24-3/4<br>[629]  | 20 X 26<br>[508 X 660]  | 115<br>[52]          | 145<br>[66]          |
| 04                          | 22<br>[559]  | 44<br>[1118] | 32<br>[813]  | 26<br>[660] | 32-3/4<br>[832]  | 20 X 26<br>[508 X 660]  | 125<br>[57]          | 155<br>[70]          |
| 06                          | 30<br>[762]  | 44<br>[1118] | 36<br>[914]  | 30<br>[762] | 32-3/4<br>[832]  | 28 X 30<br>[711 X 762]  | 150<br>[68]          | 195<br>[89]          |
| 08                          | 34<br>[864]  | 48<br>[1219] | 36<br>[914]  | 30<br>[762] | 36-3/4<br>[933]  | 32 X 30<br>[813 X 762]  | 165<br>[75]          | 220<br>[100]         |
| 10                          | 34<br>[864]  | 58<br>[1473] | 36<br>[914]  | 30<br>[762] | 46-3/4<br>[1187] | 32 X 30<br>[813 X 762]  | 190<br>[86]          | 245<br>[111]         |
| 12                          | 44<br>[1118] | 66<br>[1676] | 40<br>[1016] | 34<br>[864] | 54-3/4<br>[1391] | 42 X 34<br>[1067 X 864] | 235<br>[107]         | 315<br>[143]         |
| 14                          | 44<br>[1118] | 70<br>[1778] | 40<br>[1016] | 34<br>[864] | 58-3/4<br>[1492] | 42 X 34<br>[1067 X 864] | 245<br>[111]         | 325<br>[148]         |
| 17                          | 44<br>[1118] | 82<br>[2083] | 40<br>[1016] | 34<br>[864] | 70-3/4<br>[1797] | 42 X 34<br>[1067 X 864] | 270<br>[123]         | 355<br>[161]         |

**Figure 29: Vertical Coil (VCM)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Motor/drive location specified left or right with air to back. Standard control enclosure location matches motor/drive position.
4. Weight does not include motor weight.
5. Duct collars shall be 1" [25] all around.
6. Alternate control enclosure and VFD locations are subjected to compliance with NEC 2002 Article 110.26 and are limited. Consult Factory for available alternate location by application.
7. Optional VFD will be located on the same side of the unit as control enclosure. VFD shall be mounted adjacent to or close to control enclosure as possible, depending upon unit size. See drawing # 65-89103.

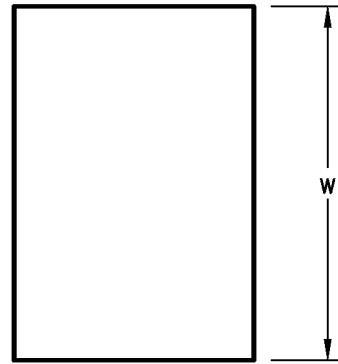


| DIMENSIONS - In [mm] |           |           |           |              |             |                |              |                      |                      | WEIGHT (NOTE 4)      |  |
|----------------------|-----------|-----------|-----------|--------------|-------------|----------------|--------------|----------------------|----------------------|----------------------|--|
| UNIT SIZE            | H         | W         | L         | A            | B           | C              | D            | ACCESS PANEL H X W   | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |  |
| 02                   | 22 [559]  | 30 [762]  | 32 [813]  | 10-1/2 [267] | 2-3/8 [603] | 11-7/16 [291]  | 7-1/8 [181]  | 20 X 26 [508 X 660]  | 110 [50]             | 140 [64]             |  |
| 03                   | 22 [559]  | 36 [914]  | 32 [813]  | 10-1/2 [267] | 2-3/8 [603] | 13-3/4 [349]   | 8-1/2 [216]  | 20 X 26 [508 X 660]  | 125 [57]             | 155 [70]             |  |
| 04                   | 22 [559]  | 44 [1118] | 32 [813]  | 11-5/8 [295] | 2-3/8 [603] | 17-1/16 [433]  | 9-7/8 [251]  | 20 X 26 [508 X 660]  | 140 [64]             | 170 [77]             |  |
| 06                   | 30 [762]  | 44 [1118] | 36 [914]  | 13-3/4 [349] | 3 [76]      | 15-3/4 [400]   | 12-1/2 [318] | 28 X 30 [711 X 762]  | 185 [84]             | 230 [105]            |  |
| 08                   | 34 [864]  | 48 [1219] | 36 [914]  | 13-3/4 [349] | 3 [76]      | 16-1/16 [408]  | 15-7/8 [403] | 32 X 30 [813 X 762]  | 215 [98]             | 270 [123]            |  |
| 10                   | 34 [864]  | 58 [1473] | 36 [914]  | 16-1/8 [410] | 3-3/8 [86]  | 21-9/16 [548]  | 14-7/8 [378] | 32 X 30 [813 X 762]  | 255 [116]            | 310 [141]            |  |
| 12                   | 44 [1118] | 66 [1676] | 40 [1016] | 19-1/8 [486] | 8 [203]     | 24-3/16 [614]  | 17-5/8 [448] | 42 X 34 [1067 X 864] | 310 [141]            | 390 [177]            |  |
| 14                   | 44 [1118] | 70 [1778] | 40 [1016] | 19-1/8 [486] | 8 [203]     | 23-15/16 [608] | 22-1/8 [562] | 42 X 34 [1067 X 864] | 325 [148]            | 405 [184]            |  |
| 17                   | 44 [1118] | 82 [2083] | 40 [1016] | 19-1/8 [486] | 8 [203]     | 29-15/16 [760] | 22-1/8 [562] | 42 X 34 [1067 X 864] | 370 [168]            | 470 [214]            |  |

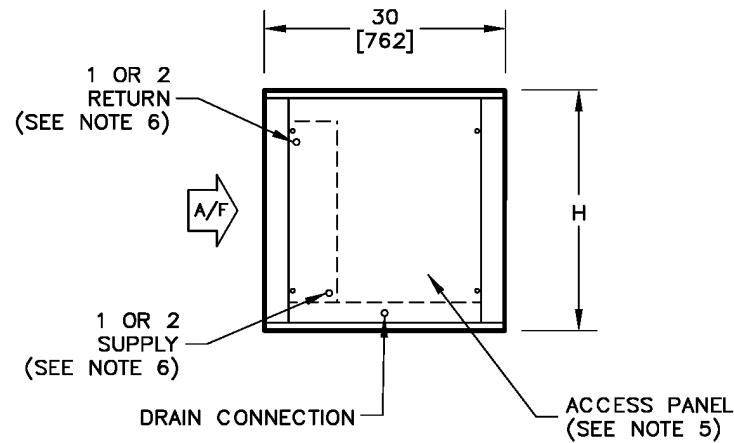
Figure 30: Horizontal FC Fan (HFM)

**NOTES:**

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Weight does not include coil weight.
4. Coil and drain connections specified left or right with air to back.
5. Panel with coil connection penetrations is not removable.
6. One coil shown. Each coil shall have a supply and return connection.



**TOP VIEW**



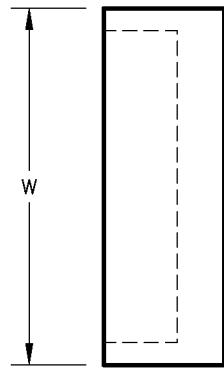
**SIDE VIEW**

| <b>DIMENSIONS - In [mm]</b> |              |              |                         |                            |                            |
|-----------------------------|--------------|--------------|-------------------------|----------------------------|----------------------------|
| UNIT SIZE                   | H            | W            | ACCESS PANEL<br>H X W   | WEIGHT (NOTE 3)            |                            |
|                             |              |              |                         | SINGLE<br>WALL<br>lbs [kg] | DOUBLE<br>WALL<br>lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 24<br>[508 X 610]  | 75<br>[34]                 | 100<br>[45]                |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 24<br>[508 X 610]  | 80<br>[36]                 | 110<br>[50]                |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 24<br>[508 X 610]  | 85<br>[39]                 | 120<br>[55]                |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 24<br>[711 X 610]  | 95<br>[43]                 | 135<br>[61]                |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 24<br>[813 X 610]  | 100<br>[45]                | 145<br>[66]                |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 24<br>[813 X 610]  | 110<br>[50]                | 160<br>[73]                |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 24<br>[1067 X 610] | 130<br>[59]                | 190<br>[86]                |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 24<br>[1067 X 610] | 145<br>[66]                | 205<br>[93]                |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 24<br>[1067 X 610] | 155<br>[70]                | 210<br>[95]                |

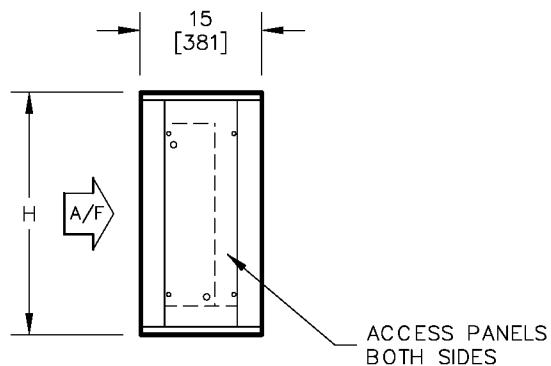
**Figure 31: Medium Coil (MCM)**

**NOTES:**

1. All dimensions are Inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Weight does not include coil weights.
4. Coil connections specified left or right with air to back.



**TOP VIEW**



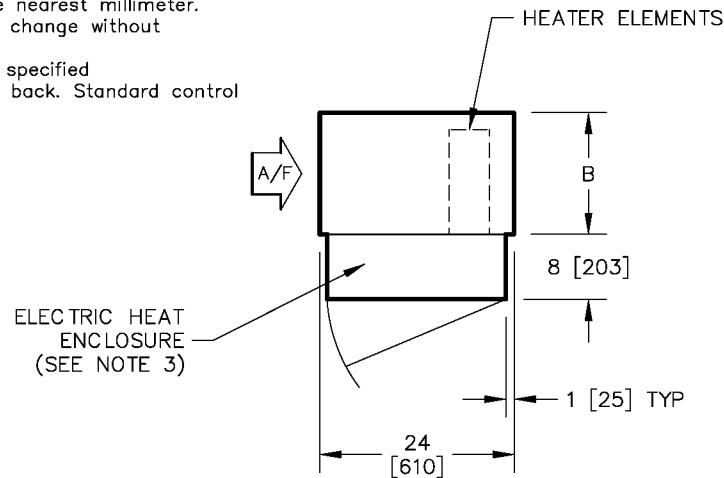
**SIDE VIEW**

| <b>DIMENSIONS - In [mm]</b> |              |              |                        |                         |                         |
|-----------------------------|--------------|--------------|------------------------|-------------------------|-------------------------|
| UNIT SIZE                   | H            | W            | ACCESS PANEL<br>H X W  | WEIGHT (SEE NOTE 3)     |                         |
|                             |              |              |                        | SINGLE WALL<br>lbs [kg] | DOUBLE WALL<br>lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 9<br>[508 X 229]  | 42<br>[19]              | 57<br>[26]              |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 9<br>[508 X 229]  | 47<br>[21]              | 62<br>[28]              |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 9<br>[508 X 229]  | 52<br>[24]              | 67<br>[30]              |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 9<br>[711 X 229]  | 58<br>[26]              | 78<br>[35]              |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 9<br>[813 X 229]  | 63<br>[29]              | 83<br>[38]              |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 9<br>[813 X 229]  | 68<br>[31]              | 93<br>[42]              |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 9<br>[1067 X 229] | 79<br>[36]              | 109<br>[49]             |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 9<br>[1067 X 229] | 84<br>[38]              | 114<br>[52]             |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 9<br>[1067 X 229] | 94<br>[43]              | 124<br>[56]             |

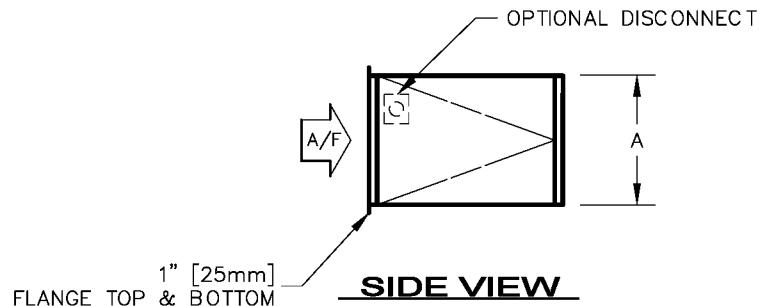
**Figure 32: Small Coil (SCM)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Electric heat enclosure specified left or right with air to back. Standard control enclosure is right hand.



**TOP VIEW**



**DIMENSIONS - In [mm]**

| UNIT SIZE |             |             | WEIGHT               |                      |
|-----------|-------------|-------------|----------------------|----------------------|
|           | A           | B           | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02        | 12<br>[305] | 12<br>[305] | 30<br>[14]           | 40<br>[18]           |
| 03        | 12<br>[305] | 12<br>[305] | 30<br>[14]           | 40<br>[18]           |
| 04        | 12<br>[305] | 12<br>[305] | 30<br>[14]           | 40<br>[18]           |
| 06        | 18<br>[457] | 17<br>[432] | 35<br>[16]           | 50<br>[23]           |
| 08        | 18<br>[457] | 17<br>[432] | 35<br>[16]           | 50<br>[23]           |
| 10        | 18<br>[457] | 17<br>[432] | 35<br>[16]           | 50<br>[23]           |
| 12        | 21<br>[533] | 25<br>[635] | 45<br>[20]           | 65<br>[30]           |
| 14        | 21<br>[533] | 25<br>[635] | 45<br>[20]           | 65<br>[30]           |
| 17        | 21<br>[533] | 25<br>[635] | 45<br>[20]           | 65<br>[30]           |

**Figure 33: Electric Heat Blow-Through (EHB)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Electric heat enclosure specified left or right with air to back.

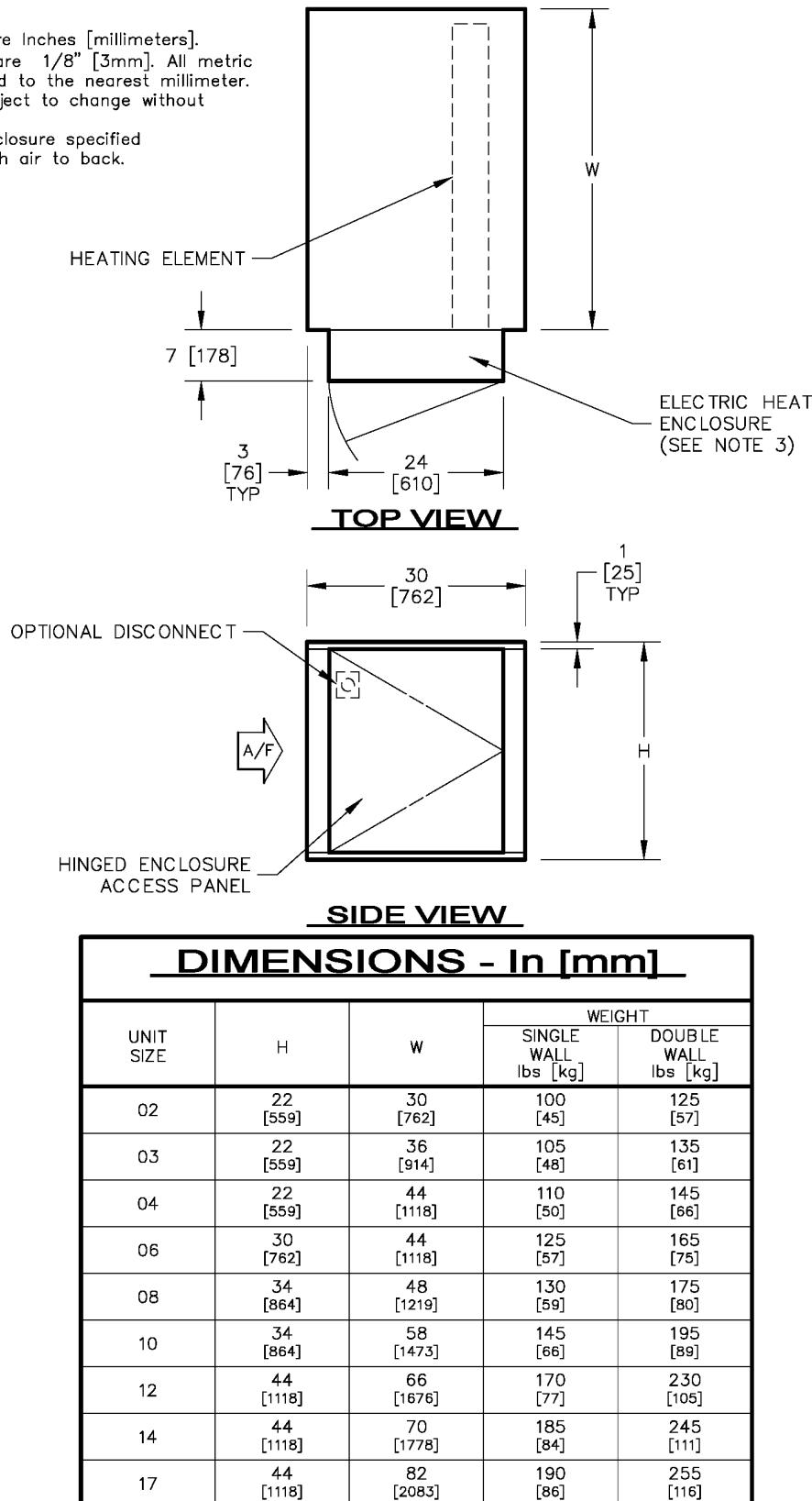
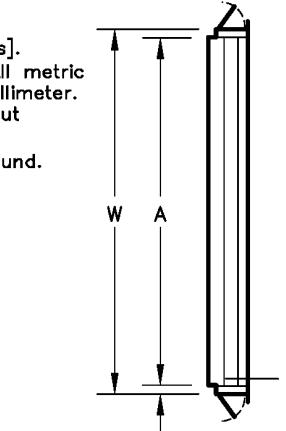


Figure 34: Electric Heat Draw-Through (EHD)

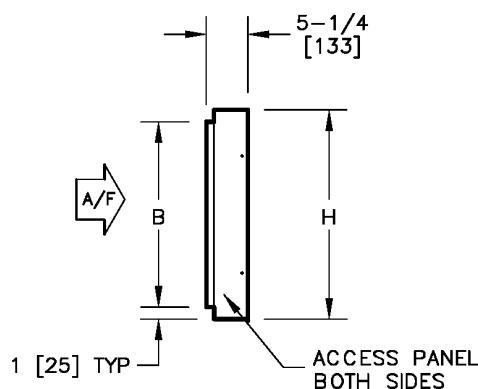
**NOTES:**

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8^{\text{th}}$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Duct collars shall be  $1^{\text{st}}$  [25] all around.

Available Filter Options:  
 A.  $2^{\text{nd}}$  [51mm], 30% pleated.



**TOP VIEW**



**SIDE VIEW**

**DIMENSIONS - In [mm]**

| UNIT SIZE | H                 | W            | A            | B                | ACCESS PANEL<br>H X W       | WEIGHT                  |                         | FILTER SIZES                                       |
|-----------|-------------------|--------------|--------------|------------------|-----------------------------|-------------------------|-------------------------|--|
|           |                   |              |              |                  |                             | SINGLE WALL<br>lbs [kg] | DOUBLE WALL<br>lbs [kg] |  |
| 02        | 17-3/8<br>[441]   | 28<br>[711]  | 26<br>[660]  | 15-3/8<br>[391]  | 17-3/8 X 4<br>[441 X 102]   | 20<br>[9]               | 25<br>[635]             | (1) 16 X 20<br>[406 X 508]                         |
| 03        | 17-3/8<br>[441]   | 34<br>[864]  | 32<br>[813]  | 15-3/8<br>[391]  | 17-3/8 X 4<br>[441 X 102]   | 20<br>[9]               | 25<br>[635]             | (1) 16 X 25<br>[406 X 635]                         |
| 04        | 17-3/8<br>[441]   | 42<br>[1069] | 40<br>[1016] | 15-3/8<br>[391]  | 17-3/8 X 4<br>[441 X 102]   | 25<br>[11]              | 30<br>[762]             | (2) 16 X 20<br>[406 X 508]                         |
| 06        | 26-3/8<br>[670]   | 42<br>[1069] | 40<br>[1016] | 24-3/8<br>[619]  | 26-3/8 X 4<br>[670 X 102]   | 30<br>[14]              | 37<br>[940]             | (2) 20 X 25<br>[508 X 635]                         |
| 08        | 26-3/8<br>[670]   | 46<br>[1168] | 44<br>[1118] | 24-3/8<br>[619]  | 26-3/8 X 4<br>[670 X 102]   | 35<br>[16]              | 42<br>[1067]            | (2) 20 X 25<br>[508 X 635]                         |
| 10        | 26-3/8<br>[670]   | 56<br>[1422] | 54<br>[1372] | 24-3/8<br>[619]  | 26-3/8 X 4<br>[670 X 102]   | 35<br>[16]              | 42<br>[1067]            | (1) 16 X 25 (2) 20 X 25<br>[406 X 635] [508 X 635] |
| 12        | 41-3/16<br>[1046] | 64<br>[1626] | 62<br>[1575] | 39-3/16<br>[995] | 41-3/16 X 4<br>[1046 X 102] | 60<br>[27]              | 69<br>[1753]            | (4) 20 X 25<br>[508 X 635]                         |
| 14        | 41-3/16<br>[1046] | 68<br>[1727] | 66<br>[1676] | 39-3/16<br>[995] | 41-3/16 X 4<br>[1046 X 102] | 60<br>[27]              | 69<br>[1753]            | (8) 16 X 20<br>[406 X 508]                         |
| 17        | 41-3/16<br>[1046] | 80<br>[2032] | 78<br>[1981] | 39-3/16<br>[995] | 41-3/16 X 4<br>[1046 X 102] | 65<br>[30]              | 74<br>[1880]            | (6) 20 X 25<br>[508 X 635]                         |

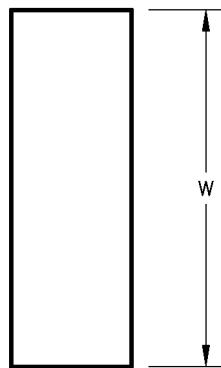
**Figure 35: External Flat Filters (EFM)**

**NOTES:**

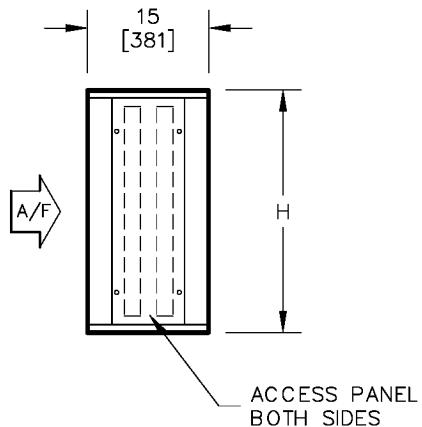
1. All dimensions are Inches [millimeters].  
All dimensions are 1/8" [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Weight is based on 2" [51mm], 30 % pleated filters and 4" [102mm], 85 % pleated filters.

**Available Filter Options:**

- A. 2" [51mm], 30 % pleated.
- B. 4" [102mm], 65 % pleated.
- C. 2" [51mm], 30 % pleated and 4" [102mm], 85 % pleated.
- D. 2" [51mm], 30 % pleated and 4" [102mm], 95 % pleated.



**TOP VIEW**



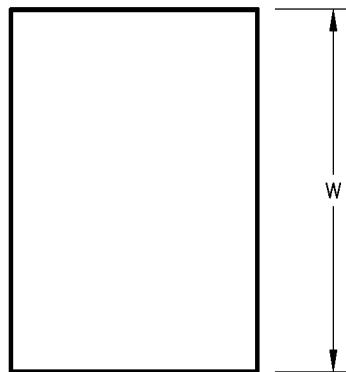
**SIDE VIEW**

| <b>DIMENSIONS - In [mm]</b> |              |              |                        |                            |                            |  |  |
|-----------------------------|--------------|--------------|------------------------|----------------------------|----------------------------|--|--|
| UNIT SIZE                   | H            | W            | ACCESS PANEL<br>H X W  | WEIGHT (SEE NOTE 3)        |                            | FILTER SIZES                             |  |
|                             |              |              |                        | SINGLE<br>WALL<br>lbs [kg] | DOUBLE<br>WALL<br>lbs [kg] | 2 [51]                                   | 4 [102]                                  |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 9<br>[508 X 229]  | 65<br>[30]                 | 75<br>[34]                 | (1)16x20<br>[406x508]                    | (1)16x20<br>[406x508]                    |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 9<br>[508 X 229]  | 70<br>[32]                 | 80<br>[36]                 | (1)16X25<br>[406X635]                    | (1)16X25<br>[406X635]                    |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 9<br>[508 X 229]  | 75<br>[34]                 | 90<br>[41]                 | (2)16X20<br>[406x508]                    | (2)16X20<br>[406x508]                    |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 9<br>[711 X 229]  | 80<br>[36]                 | 100<br>[45]                | (2)20X25<br>[508x635]                    | (2)20X25<br>[508x635]                    |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 9<br>[813 X 229]  | 95<br>[43]                 | 115<br>[52]                | (2)20X25<br>[508x635]                    | (2)20X25<br>[508x635]                    |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 9<br>[813 X 229]  | 105<br>[48]                | 130<br>[59]                | (1)16X25 (2)20X25<br>[406x635] [508x635] | (1)16X25 (2)20X25<br>[406x635] [508x635] |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 9<br>[1067 X 229] | 160<br>[73]                | 190<br>[86]                | (4)20X25<br>[508x635]                    | (4)20X25<br>[508x635]                    |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 9<br>[1067 X 229] | 170<br>[77]                | 200<br>[91]                | (8)16X20<br>[406x508]                    | (8)16X20<br>[508x635]                    |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 9<br>[1067 X 229] | 185<br>[84]                | 215<br>[98]                | (6)20X25<br>[508x635]                    | (6)20X25<br>[508x635]                    |

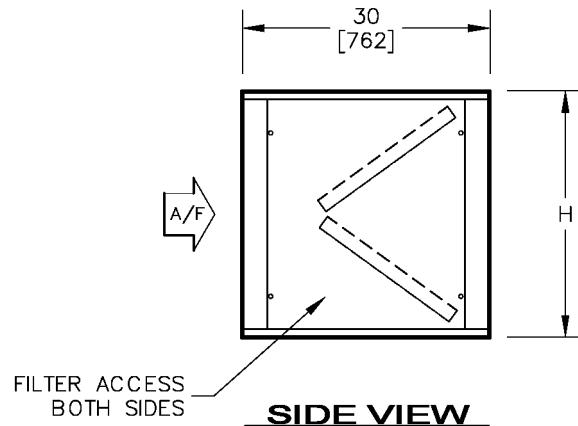
**Figure 36: Small Flat Filters (SFM)**

**NOTES:**

1. All dimensions are Inches [millimeters].  
All dimensions are 1/8" [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.



**TOP VIEW**



**SIDE VIEW**

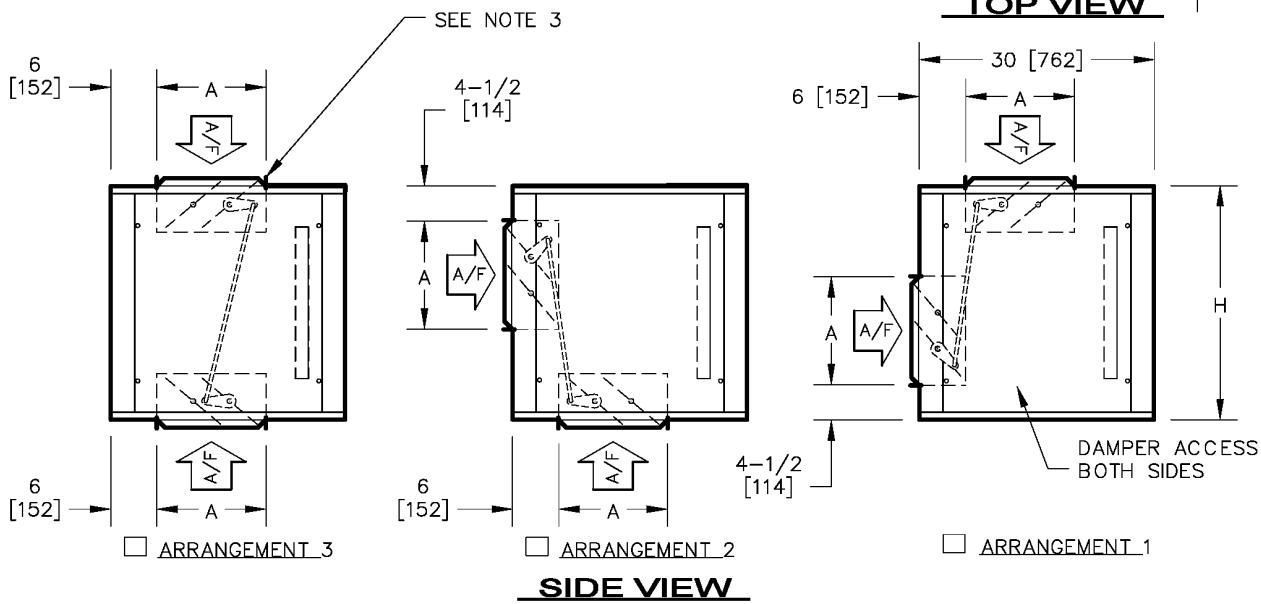
| <b>DIMENSIONS - In [mm]</b> |              |              |                         |                         |                         |  |
|-----------------------------|--------------|--------------|-------------------------|-------------------------|-------------------------|--|
| UNIT SIZE                   | H            | W            | ACCESS PANEL<br>H X W   | WEIGHT                  |                         | FILTER SIZES                             |
|                             |              |              |                         | SINGLE WALL<br>lbs [kg] | DOUBLE WALL<br>lbs [kg] |  |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 24<br>[508 X 610]  | 85<br>[39]              | 110<br>[50]             | (2)16X20<br>[406X508]                    |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 24<br>[508 X 610]  | 90<br>[41]              | 120<br>[55]             | (2)16X25<br>[406X635]                    |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 24<br>[508 X 610]  | 105<br>[48]             | 140<br>[64]             | (2)20X25<br>[508X635]                    |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 24<br>[711 X 610]  | 110<br>[50]             | 150<br>[69]             | (4)20X20<br>[508X508]                    |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 24<br>[813 X 610]  | 125<br>[57]             | 170<br>[78]             | (2)16X20 (2)20X25<br>[406X508] [508X635] |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 24<br>[813 X 610]  | 135<br>[62]             | 185<br>[84]             | (2)16X20 (4)20X20<br>[406X508] [508X508] |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 24<br>[1067 X 610] | 160<br>[73]             | 220<br>[100]            | (6)20X25<br>[508X635]                    |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 24<br>[1067 X 610] | 190<br>[87]             | 250<br>[114]            | (3)20X25 (6)20X20<br>[508X635] [508X508] |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 24<br>[1067 X 610] | 220<br>[100]            | 275<br>[125]            | (12)20X20<br>[508X508]                   |

**Figure 37: Medium V-Bank Filters (MVM)**

NOTES:

1. All dimensions are Inches [millimeters].  
All dimensions are 1/8" [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Duct collars shall be 1" [25] all around.
4. Damper linkage is factory provided and installed.

Available Filter Options:  
 A. 2" [51mm], 30 % pleated.



| UNIT SIZE | H         | W         | A        | B        | C         | ACCESS PANEL<br>H X W | WEIGHT                  |                         | FILTER SIZES                                    |
|-----------|-----------|-----------|----------|----------|-----------|-----------------------|-------------------------|-------------------------|---|
|           |           |           |          |          |           |                       | SINGLE WALL<br>lbs [kg] | DOUBLE WALL<br>lbs [kg] |   |
| 02        | 22 [559]  | 30 [762]  | 10 [254] | 9 [229]  | 12 [305]  | 20 X 24 [508 X 610]   | 110 [50]                | 135 [61]                | (1) 16 X 20 [406 X 508]                         |
| 03        | 22 [559]  | 36 [914]  | 10 [254] | 9 [229]  | 18 [457]  | 20 X 24 [508 X 610]   | 120 [55]                | 150 [68]                | (1) 16 X 25 [406 X 635]                         |
| 04        | 22 [559]  | 44 [1118] | 10 [254] | 10 [254] | 24 [610]  | 20 X 24 [508 X 610]   | 136 [62]                | 171 [78]                | (2) 16 X 20 [406 X 508]                         |
| 06        | 30 [762]  | 44 [1118] | 14 [356] | 9 [229]  | 26 [660]  | 28 X 24 [711 X 610]   | 160 [73]                | 200 [91]                | (2) 20 X 25 [508 X 635]                         |
| 08        | 34 [864]  | 48 [1219] | 14 [356] | 6 [152]  | 36 [914]  | 32 X 24 [813 X 610]   | 185 [84]                | 230 [104]               | (2) 20 X 25 [508 X 635]                         |
| 10        | 34 [864]  | 58 [1473] | 14 [356] | 7 [178]  | 44 [1118] | 32 X 24 [813 X 610]   | 210 [95]                | 260 [118]               | (1) 16 X 25 (2) 20 X 25 [406 X 635] [508 X 635] |
| 12        | 44 [1118] | 66 [1676] | 16 [406] | 10 [254] | 46 [1168] | 42 X 24 [1067 X 610]  | 265 [120]               | 325 [147]               | (4) 20 X 25 [508 X 635]                         |
| 14        | 44 [1118] | 70 [1778] | 16 [406] | 6 [152]  | 58 [1473] | 42 X 24 [1067 X 610]  | 285 [129]               | 345 [156]               | (8) 16 X 20 [406 X 508]                         |
| 17        | 44 [1118] | 82 [2083] | 16 [406] | 9 [229]  | 64 [1626] | 42 X 24 [1067 X 610]  | 325 [147]               | 380 [172]               | (6) 20 X 25 [508 X 635]                         |

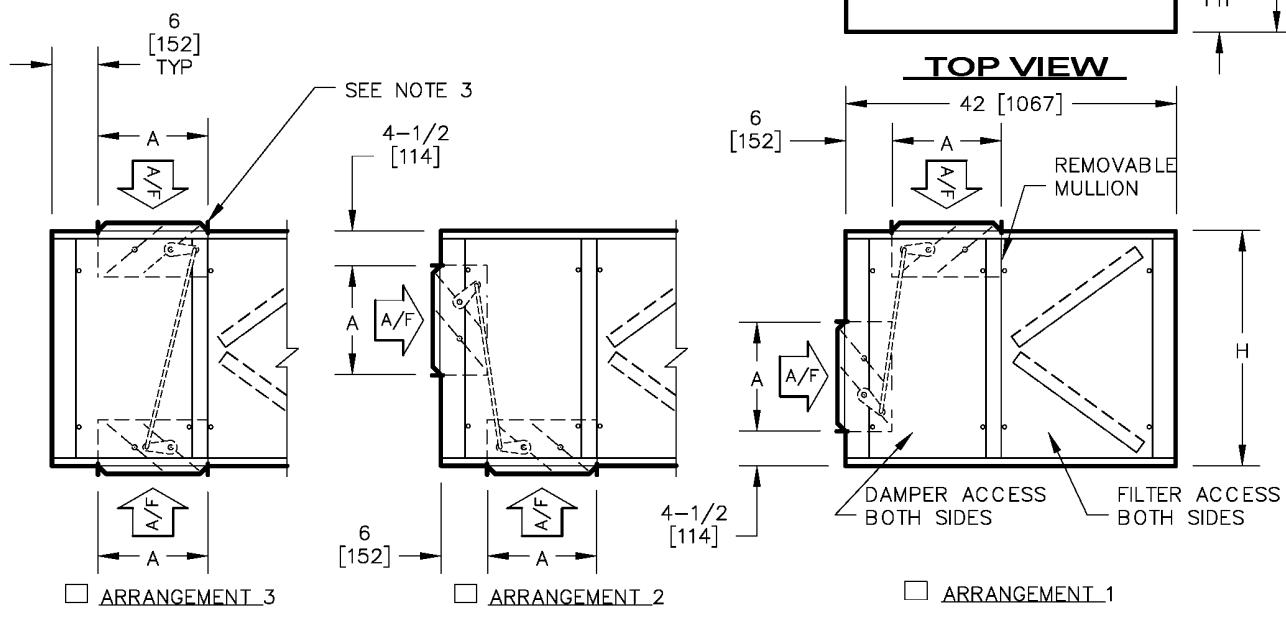
Figure 38: Medium Mixing Box with Flat Filters (MMM)

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Duct collars shall be 1" [25] all around.
4. Damper linkage is factory provided and installed.

Available Filter Options:

- A. 2" [51mm], 30 % pleated.

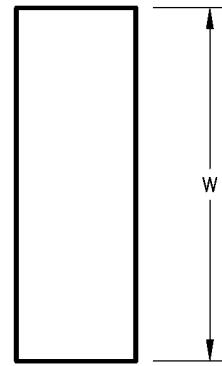


| UNIT SIZE | H            | W            | A           | B           | C            | ACCESS PANEL            |                         | WEIGHT               |                      | FILTER SIZES                             |
|-----------|--------------|--------------|-------------|-------------|--------------|-------------------------|-------------------------|----------------------|----------------------|--|
|           |              |              |             |             |              | DAMPER H X W            | FILTER H X W            | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |  |
| 02        | 22<br>[559]  | 30<br>[762]  | 10<br>[254] | 9<br>[229]  | 12<br>[305]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 130<br>[59]          | 170<br>[77]          | (2)16X20<br>[406X508]                    |
| 03        | 22<br>[559]  | 36<br>[914]  | 10<br>[254] | 9<br>[229]  | 18<br>[457]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 145<br>[66]          | 190<br>[86]          | (2)16X25<br>[406X635]                    |
| 04        | 22<br>[559]  | 44<br>[1118] | 10<br>[254] | 10<br>[254] | 24<br>[610]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 160<br>[73]          | 220<br>[100]         | (2)20X25<br>[508X635]                    |
| 06        | 30<br>[762]  | 44<br>[1118] | 14<br>[356] | 9<br>[229]  | 26<br>[660]  | 28 X 12<br>[711 X 305]  | 28 X 21<br>[711 X 533]  | 210<br>[95]          | 250<br>[114]         | (4)20X20<br>[508X508]                    |
| 08        | 34<br>[864]  | 48<br>[1219] | 14<br>[356] | 6<br>[152]  | 36<br>[914]  | 32 X 12<br>[813 X 305]  | 32 X 21<br>[813 X 533]  | 220<br>[100]         | 280<br>[127]         | (2)16X20 (2)20X25<br>[406X508] [508X635] |
| 10        | 34<br>[864]  | 58<br>[1473] | 14<br>[356] | 7<br>[178]  | 44<br>[1118] | 32 X 12<br>[813 X 305]  | 32 X 21<br>[813 X 533]  | 235<br>[107]         | 315<br>[143]         | (2)16X20 (4)20X20<br>[406X508] [508X508] |
| 12        | 44<br>[1118] | 66<br>[1676] | 16<br>[406] | 10<br>[254] | 46<br>[1168] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 280<br>[127]         | 380<br>[173]         | (6)20X25<br>[508X635]                    |
| 14        | 44<br>[1118] | 70<br>[1778] | 16<br>[406] | 6<br>[152]  | 58<br>[1473] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 310<br>[141]         | 420<br>[191]         | (3)20X25 (6)20X20<br>[508X635] [508X508] |
| 17        | 44<br>[1118] | 82<br>[2083] | 16<br>[406] | 9<br>[229]  | 64<br>[1626] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 350<br>[159]         | 470<br>[214]         | (12)20X20<br>[508X508]                   |

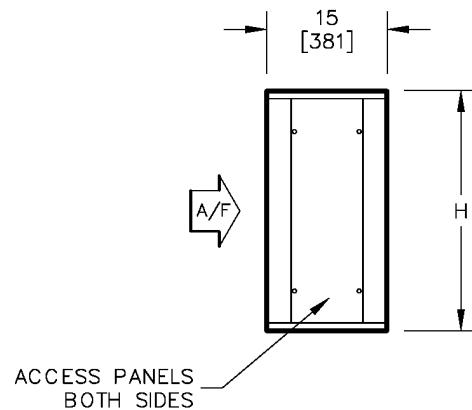
Figure 39: Large Mixing Box with V-Bank Filters (LMM)

**NOTES:**

1. All dimensions are Inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.



**TOP VIEW**



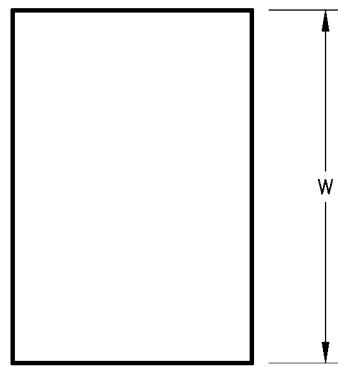
**SIDE VIEW**

| <b><u>DIMENSIONS - In [mm]</u></b> |              |              |                                      |                         |                         |
|------------------------------------|--------------|--------------|--------------------------------------|-------------------------|-------------------------|
| UNIT SIZE                          | H            | W            | ACCESS PANEL<br>H X W<br>[508 X 229] | WEIGHT                  |                         |
|                                    |              |              |                                      | SINGLE WALL<br>lbs [kg] | DOUBLE WALL<br>lbs [kg] |
| 02                                 | 22<br>[559]  | 30<br>[762]  | 20 X 9<br>[508 X 229]                | 40<br>[18]              | 55<br>[25]              |
| 03                                 | 22<br>[559]  | 36<br>[914]  | 20 X 9<br>[508 X 229]                | 45<br>[20]              | 60<br>[27]              |
| 04                                 | 22<br>[559]  | 44<br>[1118] | 20 X 9<br>[508 X 229]                | 50<br>[23]              | 65<br>[30]              |
| 06                                 | 30<br>[762]  | 44<br>[1118] | 28 X 9<br>[711 X 229]                | 55<br>[25]              | 75<br>[34]              |
| 08                                 | 34<br>[864]  | 48<br>[1219] | 32 X 9<br>[813 X 229]                | 60<br>[27]              | 80<br>[36]              |
| 10                                 | 34<br>[864]  | 58<br>[1473] | 32 X 9<br>[813 X 229]                | 65<br>[30]              | 90<br>[41]              |
| 12                                 | 44<br>[1118] | 66<br>[1676] | 42 X 9<br>[1067 X 229]               | 75<br>[34]              | 105<br>[48]             |
| 14                                 | 44<br>[1118] | 70<br>[1778] | 42 X 9<br>[1067 X 229]               | 80<br>[36]              | 110<br>[50]             |
| 17                                 | 44<br>[1118] | 82<br>[2083] | 42 X 9<br>[1067 X 229]               | 90<br>[41]              | 120<br>[46]             |

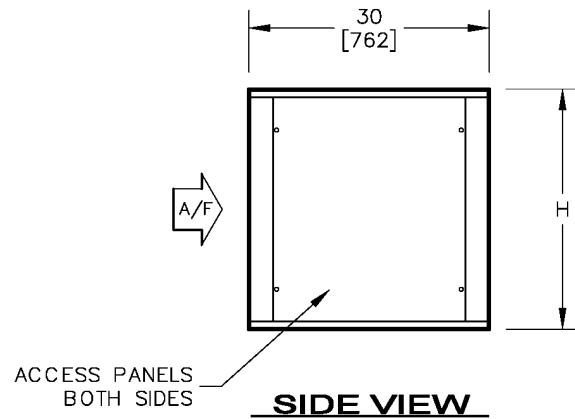
**Figure 40: Small Access (SAM)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.



**TOP VIEW**



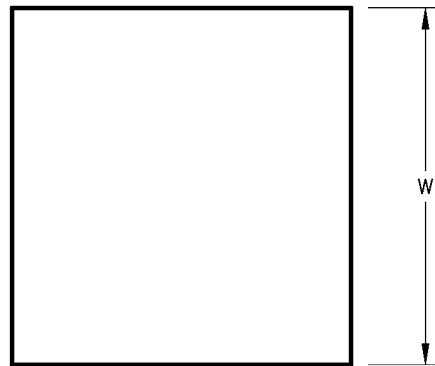
**SIDE VIEW**

| <b>DIMENSIONS - In [mm]</b> |              |              |                         |                      |                      |
|-----------------------------|--------------|--------------|-------------------------|----------------------|----------------------|
| UNIT SIZE                   | H            | W            | ACCESS PANEL H X W      | WEIGHT               |                      |
|                             |              |              |                         | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 24<br>[508 X 610]  | 75<br>[34]           | 100<br>[45]          |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 24<br>[508 X 610]  | 80<br>[36]           | 110<br>[50]          |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 24<br>[508 X 610]  | 85<br>[39]           | 120<br>[55]          |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 24<br>[711 X 610]  | 95<br>[43]           | 135<br>[61]          |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 24<br>[813 X 610]  | 100<br>[45]          | 145<br>[66]          |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 24<br>[813 X 610]  | 110<br>[50]          | 160<br>[73]          |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 24<br>[1067 X 610] | 130<br>[59]          | 190<br>[86]          |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 24<br>[1067 X 610] | 145<br>[66]          | 205<br>[93]          |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 24<br>[1067 X 610] | 155<br>[70]          | 210<br>[95]          |

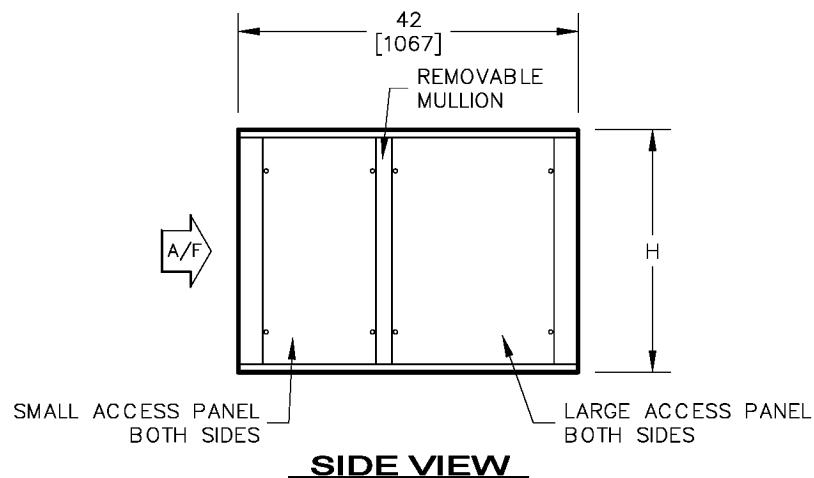
**Figure 41: Medium Access (MAM)**

**NOTES:**

1. All dimensions are Inches [millimeters].  
All dimensions are 1/8" [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.



**TOP VIEW**



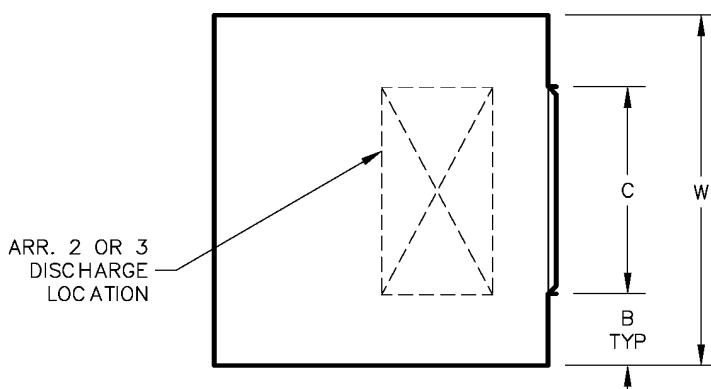
**SIDE VIEW**

| <b>DIMENSIONS - In [mm]</b> |              |              |                         |                         |                      |                      |
|-----------------------------|--------------|--------------|-------------------------|-------------------------|----------------------|----------------------|
| UNIT SIZE                   | H            | W            | ACCESS PANEL            |                         | WEIGHT               |                      |
|                             |              |              | SMALL H X W             | LARGE H X W             | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 85<br>[39]           | 130<br>[59]          |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 90<br>[41]           | 135<br>[61]          |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 95<br>[43]           | 150<br>[68]          |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 12<br>[711 X 305]  | 28 X 21<br>[711 X 533]  | 115<br>[52]          | 165<br>[75]          |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 12<br>[813 X 305]  | 32 X 12<br>[813 X 305]  | 120<br>[55]          | 180<br>[82]          |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 12<br>[813 X 305]  | 32 X 12<br>[813 X 305]  | 125<br>[57]          | 200<br>[91]          |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 135<br>[61]          | 235<br>[107]         |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 145<br>[66]          | 245<br>[111]         |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 155<br>[70]          | 265<br>[120]         |

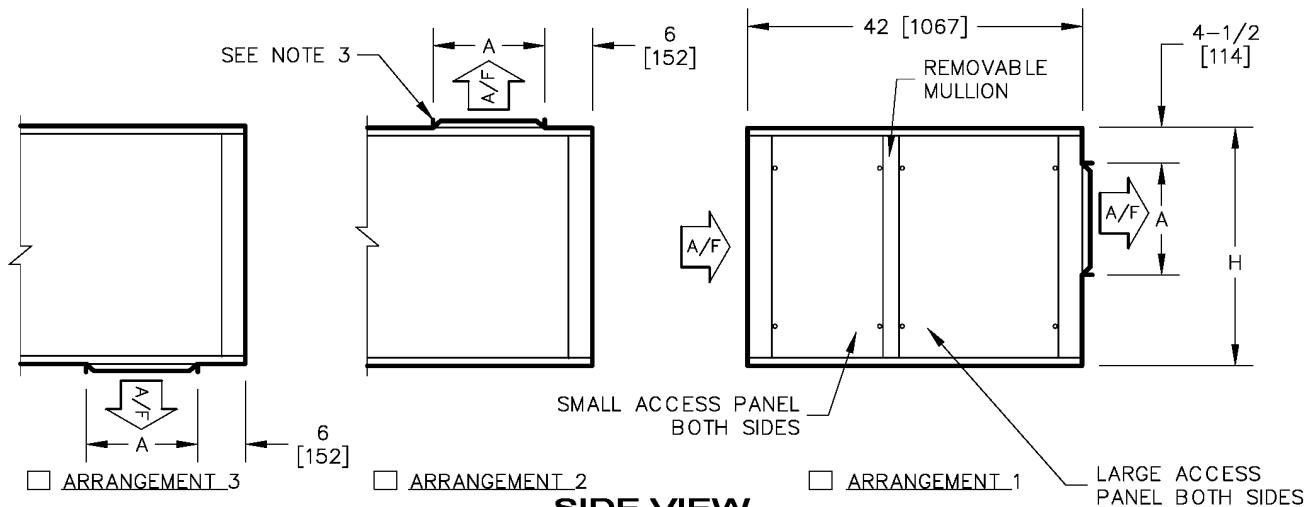
**Figure 42: Large Access (LAM)**

**NOTES:**

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Duct collars shall be 1" [25] all around.



**TOP VIEW**



**SIDE VIEW**

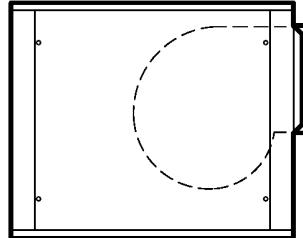
**DIMENSIONS - In [mm]**

| UNIT SIZE | H            | W            | A           | B           | C            | ACCESS PANEL            |                         | WEIGHT               |                      |
|-----------|--------------|--------------|-------------|-------------|--------------|-------------------------|-------------------------|----------------------|----------------------|
|           |              |              |             |             |              | SMALL H X W             | LARGE H X W             | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02        | 22<br>[559]  | 30<br>[762]  | 10<br>[254] | 9<br>[229]  | 12<br>[305]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 90<br>[41]           | 130<br>[59]          |
| 03        | 22<br>[559]  | 36<br>[914]  | 10<br>[254] | 9<br>[229]  | 18<br>[457]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 105<br>[48]          | 150<br>[68]          |
| 04        | 22<br>[559]  | 44<br>[1118] | 10<br>[254] | 10<br>[254] | 24<br>[610]  | 20 X 12<br>[508 X 305]  | 20 X 21<br>[508 X 533]  | 110<br>[50]          | 170<br>[77]          |
| 06        | 30<br>[762]  | 44<br>[1118] | 14<br>[356] | 9<br>[229]  | 26<br>[660]  | 28 X 12<br>[711 X 305]  | 28 X 21<br>[711 X 533]  | 150<br>[68]          | 190<br>[86]          |
| 08        | 34<br>[864]  | 48<br>[1219] | 14<br>[356] | 6<br>[152]  | 36<br>[914]  | 32 X 12<br>[813 X 305]  | 32 X 12<br>[813 X 305]  | 155<br>[70]          | 215<br>[98]          |
| 10        | 34<br>[864]  | 58<br>[1473] | 14<br>[356] | 7<br>[178]  | 44<br>[1118] | 32 X 12<br>[813 X 305]  | 32 X 12<br>[813 X 305]  | 160<br>[73]          | 240<br>[109]         |
| 12        | 44<br>[1118] | 66<br>[1676] | 16<br>[406] | 10<br>[254] | 46<br>[1168] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 190<br>[86]          | 290<br>[132]         |
| 14        | 44<br>[1118] | 70<br>[1778] | 16<br>[406] | 6<br>[152]  | 58<br>[1473] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 205<br>[93]          | 300<br>[136]         |
| 17        | 44<br>[1118] | 82<br>[2083] | 16<br>[406] | 9<br>[229]  | 64<br>[1626] | 42 X 12<br>[1067 X 305] | 42 X 21<br>[1067 X 533] | 220<br>[100]         | 335<br>[152]         |

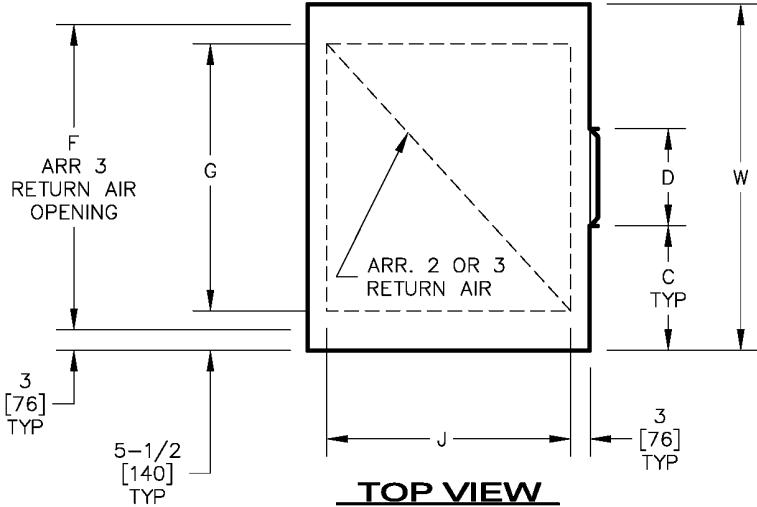
**Figure 43: Large Discharge Plenum (LPM)**

NOTES:

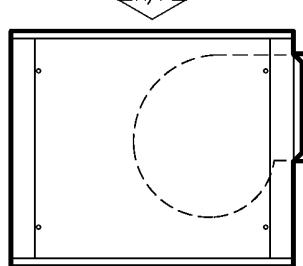
1. All dimensions are inches [millimeters].
2. All dimensions are  $1/8"$  [3mm]. All metric values are round to the nearest millimeter.
3. All drawings subject to change without prior notice.
4. Motor/drive location specified left or right with air to back.
5. Weight does not include motor weight.
6. Duct collars shall be 1" [25] all around.



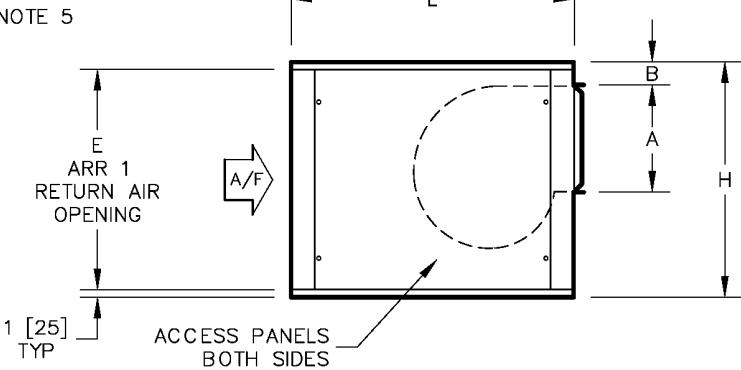
ARRANGEMENT 3



**TOP VIEW**



ARRANGEMENT 2



ARRANGEMENT 1

**SIDE VIEW**

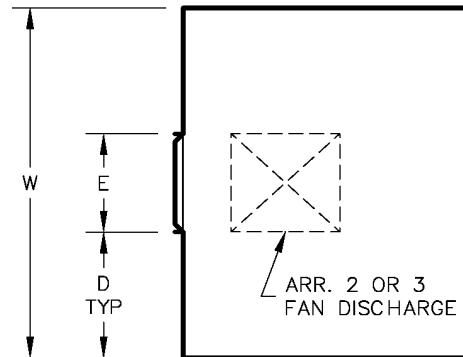
**DIMENSIONS - In [mm]**

| UNIT SIZE | H            | W            | L            | A               | B              | C                 | D               | E            | F            | G            | J           | ACCESS PANEL H X W      | WEIGHT (NOTE 4)      |                      |
|-----------|--------------|--------------|--------------|-----------------|----------------|-------------------|-----------------|--------------|--------------|--------------|-------------|-------------------------|----------------------|----------------------|
|           |              |              |              |                 |                |                   |                 |              |              |              |             |                         | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02        | 22<br>[559]  | 30<br>[762]  | 32<br>[813]  | 10-1/2<br>[267] | 2-3/8<br>[603] | 11-7/16<br>[291]  | 7-1/8<br>[181]  | 20<br>[508]  | 24<br>[610]  | 19<br>[483]  | 26<br>[660] | 20 X 26<br>[508 X 660]  | 110<br>[50]          | 140<br>[64]          |
| 03        | 22<br>[559]  | 36<br>[914]  | 32<br>[813]  | 10-1/2<br>[267] | 2-3/8<br>[603] | 13-3/4<br>[349]   | 8-1/2<br>[216]  | 20<br>[508]  | 30<br>[762]  | 25<br>[635]  | 26<br>[660] | 20 X 26<br>[508 X 660]  | 125<br>[57]          | 155<br>[70]          |
| 04        | 22<br>[559]  | 44<br>[1118] | 32<br>[813]  | 11-5/8<br>[295] | 2-3/8<br>[603] | 17-1/16<br>[433]  | 9-7/8<br>[251]  | 20<br>[508]  | 38<br>[966]  | 33<br>[838]  | 26<br>[660] | 20 X 26<br>[508 X 660]  | 140<br>[64]          | 170<br>[77]          |
| 06        | 30<br>[762]  | 44<br>[1118] | 36<br>[914]  | 13-3/4<br>[349] | 3<br>[76]      | 15-3/4<br>[400]   | 12-1/2<br>[318] | 28<br>[712]  | 38<br>[966]  | 33<br>[838]  | 30<br>[762] | 28 X 30<br>[711 X 762]  | 185<br>[84]          | 230<br>[105]         |
| 08        | 34<br>[864]  | 48<br>[1219] | 36<br>[914]  | 13-3/4<br>[349] | 3<br>[76]      | 16-1/16<br>[408]  | 15-7/8<br>[403] | 32<br>[813]  | 42<br>[1067] | 37<br>[940]  | 30<br>[762] | 32 X 30<br>[813 X 762]  | 215<br>[98]          | 270<br>[123]         |
| 10        | 34<br>[864]  | 58<br>[1473] | 36<br>[914]  | 16-1/8<br>[410] | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 14-7/8<br>[378] | 32<br>[813]  | 52<br>[1321] | 47<br>[1194] | 30<br>[762] | 32 X 30<br>[813 X 762]  | 255<br>[116]         | 310<br>[141]         |
| 12        | 44<br>[1118] | 66<br>[1676] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 24-3/16<br>[614]  | 17-5/8<br>[448] | 42<br>[1067] | 60<br>[1524] | 55<br>[1397] | 34<br>[864] | 42 X 34<br>[1067 X 864] | 310<br>[141]         | 390<br>[177]         |
| 14        | 44<br>[1118] | 70<br>[1778] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 23-15/16<br>[608] | 22-1/8<br>[562] | 42<br>[1067] | 64<br>[1626] | 59<br>[1499] | 34<br>[864] | 42 X 34<br>[1067 X 864] | 325<br>[148]         | 405<br>[184]         |
| 17        | 44<br>[1118] | 82<br>[2083] | 40<br>[1016] | 19-1/8<br>[486] | 8<br>[203]     | 29-15/16<br>[760] | 22-1/8<br>[562] | 42<br>[1067] | 76<br>[1930] | 71<br>[1803] | 34<br>[864] | 42 X 34<br>[1067 X 864] | 370<br>[168]         | 470<br>[214]         |

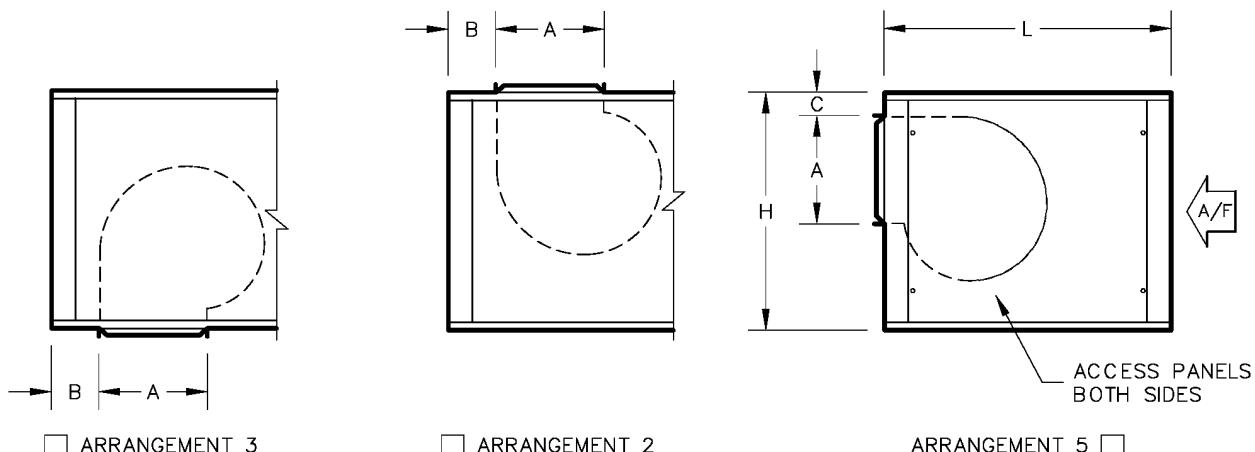
**Figure 44: Return Fan (RFM)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are 1/8" [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Motor/drive location specified left or right with air to back.
4. Weight does not include motor weight.
5. Duct collars shall be 1" [25] all around.



**TOP VIEW**



**SIDE VIEW**

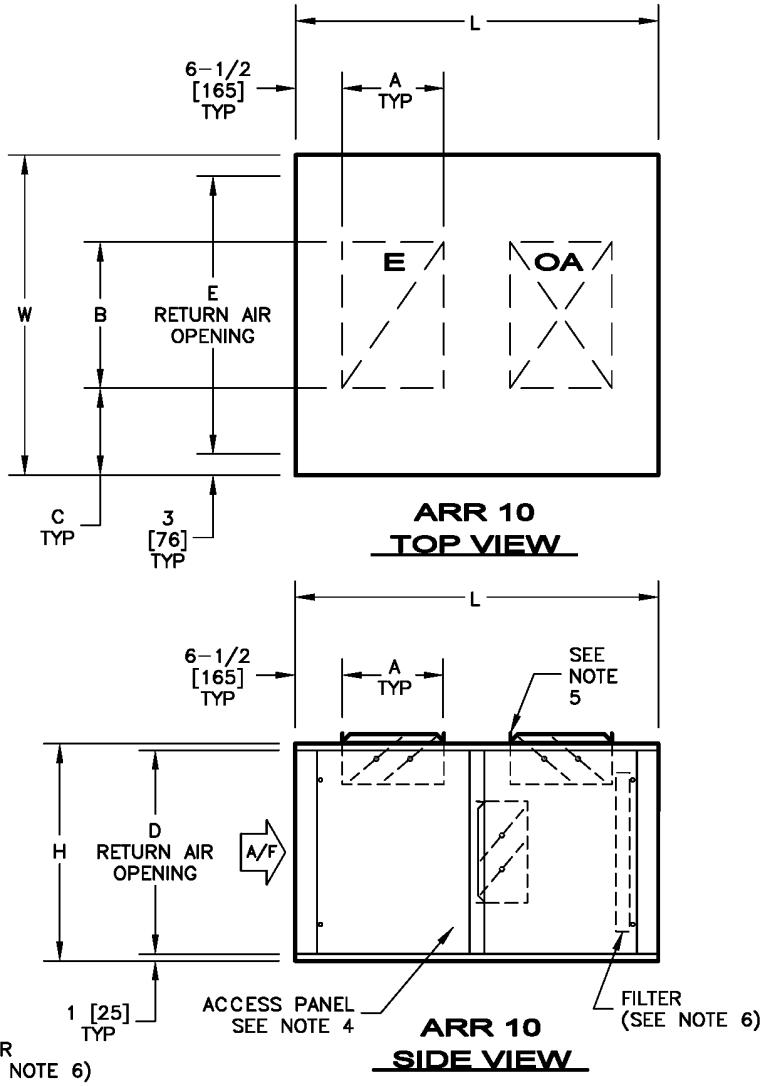
**DIMENSIONS - In [mm]**

| UNIT SIZE | H            | W            | L            | A               | B          | C              | D                 | E               | ACCESS PANEL H X W      | WEIGHT (NOTE 4)      |                      |
|-----------|--------------|--------------|--------------|-----------------|------------|----------------|-------------------|-----------------|-------------------------|----------------------|----------------------|
|           |              |              |              |                 |            |                |                   |                 |                         | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] |
| 02        | 22<br>[559]  | 30<br>[762]  | 32<br>[813]  | 10-1/2<br>[267] | 5<br>[127] | 2-3/8<br>[603] | 11-7/16<br>[291]  | 7-1/8<br>[181]  | 20 X 26<br>[508 X 660]  | 110<br>[50]          | 140<br>[64]          |
| 03        | 22<br>[559]  | 36<br>[914]  | 32<br>[813]  | 10-1/2<br>[267] | 5<br>[127] | 2-3/8<br>[603] | 13-3/4<br>[349]   | 8-1/2<br>[216]  | 20 X 26<br>[508 X 660]  | 125<br>[57]          | 155<br>[70]          |
| 04        | 22<br>[559]  | 44<br>[1118] | 32<br>[813]  | 11-5/8<br>[295] | 5<br>[127] | 2-3/8<br>[603] | 17-1/16<br>[433]  | 9-7/8<br>[251]  | 20 X 26<br>[508 X 660]  | 140<br>[64]          | 170<br>[77]          |
| 06        | 30<br>[762]  | 44<br>[1118] | 36<br>[914]  | 13-3/4<br>[349] | 5<br>[127] | 3<br>[76]      | 15-3/4<br>[400]   | 12-1/2<br>[318] | 28 X 30<br>[711 X 762]  | 185<br>[84]          | 230<br>[105]         |
| 08        | 34<br>[864]  | 48<br>[1219] | 36<br>[914]  | 13-3/4<br>[349] | 5<br>[127] | 3<br>[76]      | 16-1/16<br>[408]  | 15-7/8<br>[403] | 32 X 30<br>[813 X 762]  | 215<br>[98]          | 270<br>[123]         |
| 10        | 34<br>[864]  | 58<br>[1473] | 36<br>[914]  | 16-1/8<br>[410] | 5<br>[127] | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 14-7/8<br>[378] | 32 X 30<br>[813 X 762]  | 255<br>[116]         | 310<br>[141]         |
| 12        | 44<br>[1118] | 66<br>[1676] | 40<br>[1016] | 19-1/8<br>[486] | 5<br>[127] | 8<br>[203]     | 24-3/16<br>[614]  | 17-5/8<br>[448] | 42 X 34<br>[1067 X 864] | 310<br>[141]         | 390<br>[177]         |
| 14        | 44<br>[1118] | 70<br>[1778] | 40<br>[1016] | 19-1/8<br>[486] | 5<br>[127] | 8<br>[203]     | 23-15/16<br>[608] | 22-1/8<br>[562] | 42 X 34<br>[1067 X 864] | 325<br>[148]         | 405<br>[184]         |
| 17        | 44<br>[1118] | 82<br>[2083] | 40<br>[1016] | 19-1/8<br>[486] | 5<br>[127] | 8<br>[203]     | 29-15/16<br>[760] | 22-1/8<br>[562] | 42 X 34<br>[1067 X 864] | 370<br>[168]         | 470<br>[214]         |

**Figure 45: Exhaust Fan (XFM)**

**NOTES:**

1. All dimensions are inches [millimeters]. All dimensions are  $\pm 1/8$ " [3mm]. All values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Arrangements shown for typical dimensions of dampers.
4. Access panels located opposite of dampers for arrangements with dampers on sides of units.
5. Duct collars shall be 1" [25] all around.
6. Filters are accessible from both sides unless outside air damper is located on side. When outside air damper is located on side, filter access is opposite side from damper. Should side outside air damper and filter access on both sides be required, a small filter component will be required down stream of horizontal economizer.
7. Damper linkage is field provided and installed.



**DIMENSIONS - In [mm]**

| UNIT SIZE | H            | W            | L            | A                 | B               | C                | D            | E            | F               | ACCESS PANEL H X W          | WEIGHT DOUBLE WALL lbs [kg] |
|-----------|--------------|--------------|--------------|-------------------|-----------------|------------------|--------------|--------------|-----------------|-----------------------------|-----------------------------|
| 02        | 22<br>[559]  | 30<br>[762]  | 46<br>[1168] | 12<br>[305]       | 9-7/8<br>[251]  | 10-1/16<br>[256] | 20<br>[508]  | 24<br>[610]  | 6-1/16<br>[154] | 20 X 19<br>[508 X 483]      | 205<br>[93]                 |
| 03        | 22<br>[559]  | 36<br>[914]  | 46<br>[1168] | 11-13/16<br>[300] | 11-7/8<br>[302] | 12-1/16<br>[306] | 20<br>[508]  | 30<br>[762]  | 5-1/16<br>[129] | 20 X 19<br>[508 X 483]      | 220<br>[100]                |
| 04        | 22<br>[559]  | 44<br>[1118] | 46<br>[1168] | 11-13/16<br>[300] | 13-7/8<br>[352] | 15-1/16<br>[383] | 20<br>[508]  | 38<br>[966]  | 4-1/16<br>[103] | 20 X 19<br>[508 X 483]      | 245<br>[111]                |
| 06        | 30<br>[762]  | 44<br>[1118] | 50<br>[1270] | 13-13/16<br>[351] | 17-7/8<br>[454] | 13-1/16<br>[332] | 28<br>[712]  | 38<br>[966]  | 6-1/16<br>[154] | 28 X 21<br>[711 X 533]      | 295<br>[134]                |
| 08        | 34<br>[864]  | 48<br>[1219] | 50<br>[1270] | 13-13/16<br>[351] | 23-7/8<br>[606] | 12-1/16<br>[306] | 32<br>[813]  | 42<br>[1067] | 5-1/16<br>[129] | 32 X 21<br>[813 X 533]      | 320<br>[145]                |
| 10        | 34<br>[864]  | 58<br>[1473] | 50<br>[1270] | 13-13/16<br>[351] | 25-7/8<br>[657] | 16-1/16<br>[408] | 32<br>[813]  | 52<br>[1321] | 4-1/16<br>[103] | 32 X 21<br>[813 X 533]      | 380<br>[173]                |
| 12        | 44<br>[1118] | 66<br>[1676] | 53<br>[1346] | 15-13/16<br>[402] | 29-7/8<br>[759] | 18-1/16<br>[459] | 42<br>[1067] | 60<br>[1524] | 7-1/16<br>[179] | 42 X 22-1/2<br>[1067 X 572] | 475<br>[216]                |
| 14        | 44<br>[1118] | 70<br>[1778] | 53<br>[1346] | 15-13/16<br>[402] | 35-7/8<br>[911] | 17-1/16<br>[433] | 42<br>[1067] | 64<br>[1626] | 4-1/16<br>[103] | 42 X 22-1/2<br>[1067 X 572] | 490<br>[223]                |
| 17        | 44<br>[1118] | 82<br>[2083] | 53<br>[1346] | 15-13/16<br>[402] | 35-7/8<br>[911] | 23-1/16<br>[586] | 42<br>[1067] | 76<br>[1931] | 4-1/16<br>[103] | 42 X 22-1/2<br>[1067 X 572] | 545<br>[248]                |

**Figure 46: Horizontal Economizer (HEM)**

NOTES:

1. All dimensions are inches [millimeters].  
All dimensions are  $1/8"$  [3mm]. All values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. See drawing #65-80050 for typical dimensions of dampers.

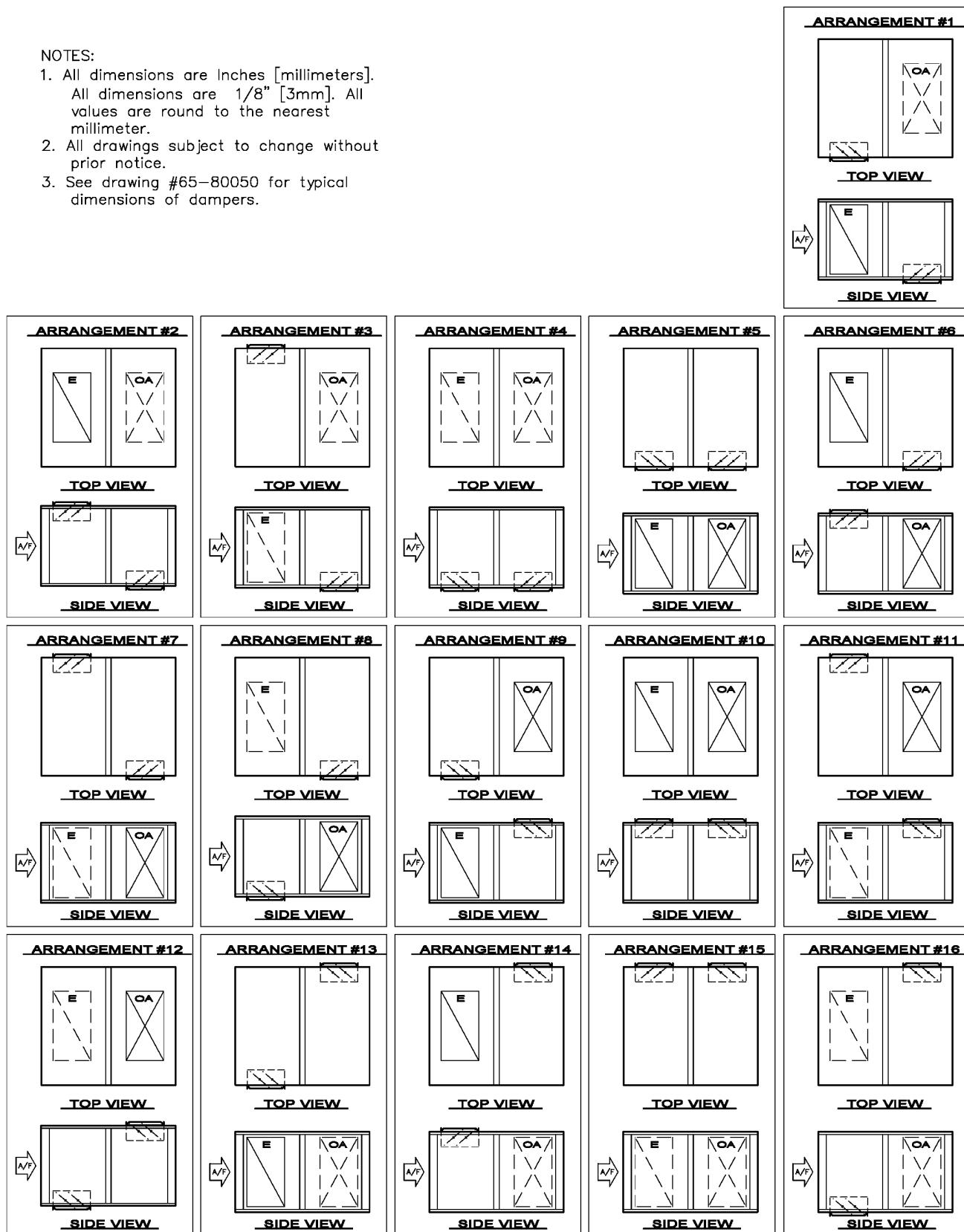
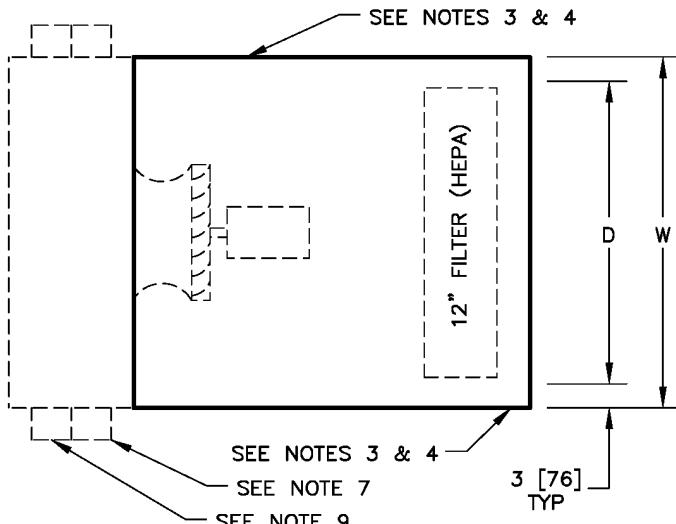


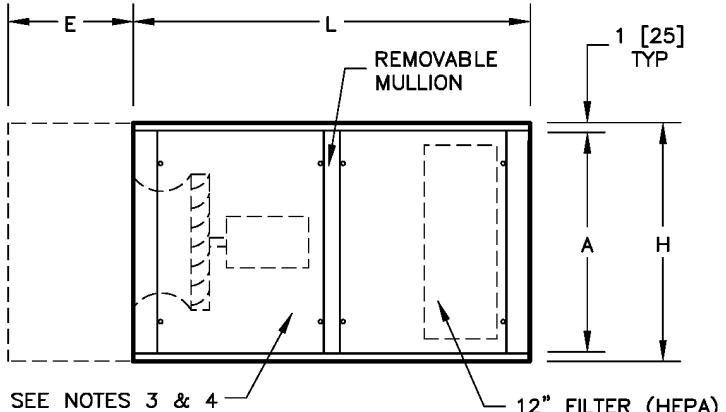
Figure 47: Horizontal Economizer (HEM), Arrangements

**NOTES:**

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. The width of the access panel is required on both sides to secure/unsecure filter rack.
4. See table for minimum clearance required to remove/install filter rack on either side.
5. Weight includes HEPA filter weight.
6. Motor weight is not included.
7. Control enclosure can be located on either right or left side of unit.
8. Panel with control enclosure is not removable or hinged.
9. VFD will be located on the same side of the unit as control enclosure. VFD shall be mounted adjacent to or as close to control enclosure as possible, depending upon unit size.
10. Fan and motor access available on either side.
11. To ensure proper fan performance, an access module is required upstream of the plug fan.



**TOP VIEW**



**SIDE VIEW**

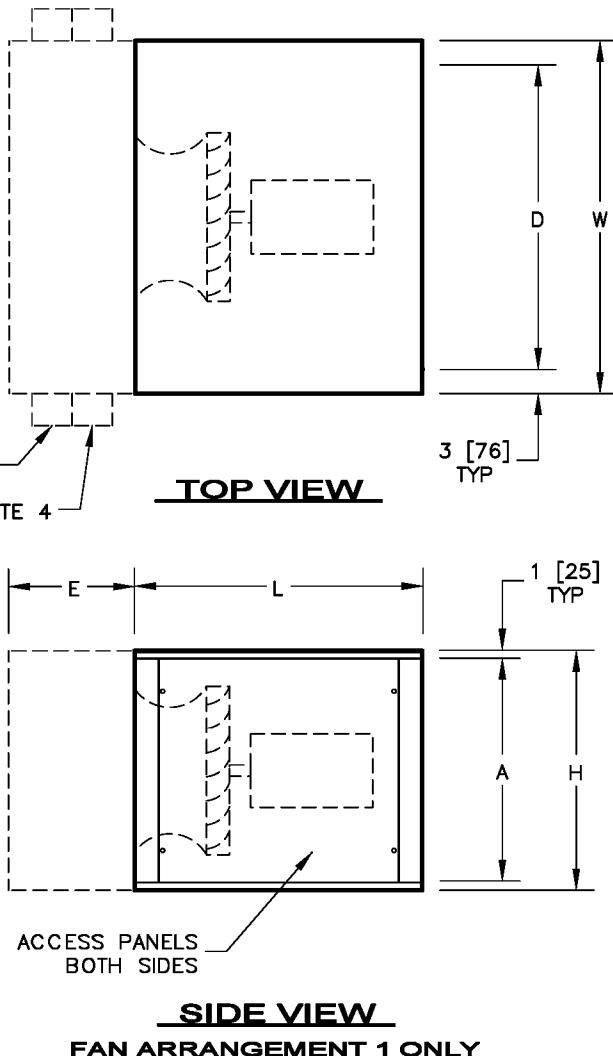
**FAN ARRANGEMENT 1 ONLY**

| <b>DIMENSIONS - In [mm]</b> |              |              |              |                 |                |                   |                 |  |   |                             |  |   |                            |
|-----------------------------|--------------|--------------|--------------|-----------------|----------------|-------------------|-----------------|--|---|-----------------------------|--|---|----------------------------|
| UNIT SIZE                   | H            | W            | L            | A               | B              | C                 | D               | E<br>MIN. REQUIRED<br>ACCESS MODULE<br>SEE NOTE 11 | FILTER<br>REMOVAL<br>SEE NOTES<br>3 & 4 | ACCESS<br>PANEL<br>H X W    | FILTER<br>H X W<br>(QTY)                         | WEIGHT (NOTE 5)<br>SINGLE<br>WALL<br>lbs [kg] | DOUBLE<br>WALL<br>lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 46<br>[1168] | 10-1/2<br>[267] | 2-3/8<br>[603] | 11-7/16<br>[291]  | 7-1/8<br>[181]  | 15<br>[381]  | 20<br>[508]                             | 20 X 19<br>[508 X 483]      | (1)15 [381] X 20 [508]                           | 120<br>[54]                                   | 150<br>[68]                |
| 03                          | 22<br>[559]  | 36<br>[914]  | 46<br>[1168] | 10-1/2<br>[267] | 2-3/8<br>[603] | 13-3/4<br>[349]   | 8-1/2<br>[216]  | 15<br>[381]  | 30<br>[762]                             | 20 X 19<br>[508 X 483]      | (2)15 [381] X 15 [381]                           | 135<br>[61]                                   | 165<br>[74]                |
| 04                          | 22<br>[559]  | 44<br>[1118] | 46<br>[1168] | 11-5/8<br>[295] | 2-3/8<br>[603] | 17-1/16<br>[433]  | 9-7/8<br>[251]  | 15<br>[381]  | 40<br>[1016]                            | 20 X 19<br>[508 X 483]      | (2)15 [381] X 20 [508]                           | 150<br>[68]                                   | 180<br>[81]                |
| 06                          | 30<br>[762]  | 44<br>[1118] | 50<br>[1270] | 13-3/4<br>[349] | 3<br>[76]      | 15-3/4<br>[400]   | 12-1/2<br>[318] | 15<br>[381]  | 40<br>[1016]                            | 28 X 21<br>[711 X 533]      | (2)25 [635] X 40 [1016]                          | 180<br>[81]                                   | 225<br>[101]               |
| 08                          | 34<br>[864]  | 48<br>[1219] | 50<br>[1270] | 13-3/4<br>[349] | 3<br>[76]      | 16-1/16<br>[408]  | 15-7/8<br>[403] | 30<br>[762]  | 40<br>[1016]                            | 32 X 21<br>[813 X 533]      | (4)15 [381] X 20 [508]                           | 200<br>[90]                                   | 255<br>[115]               |
| 10                          | 34<br>[864]  | 58<br>[1473] | 50<br>[1270] | 16-1/8<br>[410] | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 14-7/8<br>[378] | 30<br>[762]  | 50<br>[1270]                            | 32 X 21<br>[813 X 533]      | (4)15 [381] X 15 [381]<br>(2)15 [381] X 20 [508] | 225<br>[101]                                  | 280<br>[126]               |
| 12                          | 44<br>[1118] | 66<br>[1676] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 24-3/16<br>[614]  | 17-5/8<br>[448] | 30<br>[762]  | 45<br>[1143]                            | 42 X 22-1/2<br>[1067 X 572] | (6)20 [508] X 15 [381]                           | 265<br>[119]                                  | 345<br>[155]               |
| 14                          | 44<br>[1118] | 70<br>[1778] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 23-15/16<br>[608] | 22-1/8<br>[562] | 30<br>[762]  | 55<br>[1397]                            | 42 X 22-1/2<br>[1067 X 572] | (2)20 [508] X 15 [381]<br>(4)20 [508] X 15 [381] | 275<br>[124]                                  | 355<br>[160]               |
| 17                          | 44<br>[1118] | 82<br>[2083] | 53<br>[1346] | 19-1/8<br>[486] | 8<br>[203]     | 29-15/16<br>[760] | 22-1/8<br>[562] | 30<br>[762]  | 65<br>[1651]                            | 42 X 22-1/2<br>[1067 X 572] | (4)20 [508] X 25 [635]<br>(2)20 [508] X 15 [381] | 290<br>[131]                                  | 390<br>[176]               |

**Figure 48: Plug Fan and HEPA Filter Combination (PHM)**

**NOTES:**

1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. Control enclosure can be located on either right or left side of unit.
4. VFD will be located on the same side of the unit as control enclosure. VFD shall be mounted adjacent to or as close to control enclosure as possible, depending upon unit size. See drawing #65-89103.
5. Motor weight is not included. See submittal 65-80016 for motor weight.
6. To ensure proper fan performance, an access module is required upstream of the plug fan.



**SIDE VIEW**

**FAN ARRANGEMENT 1 ONLY**

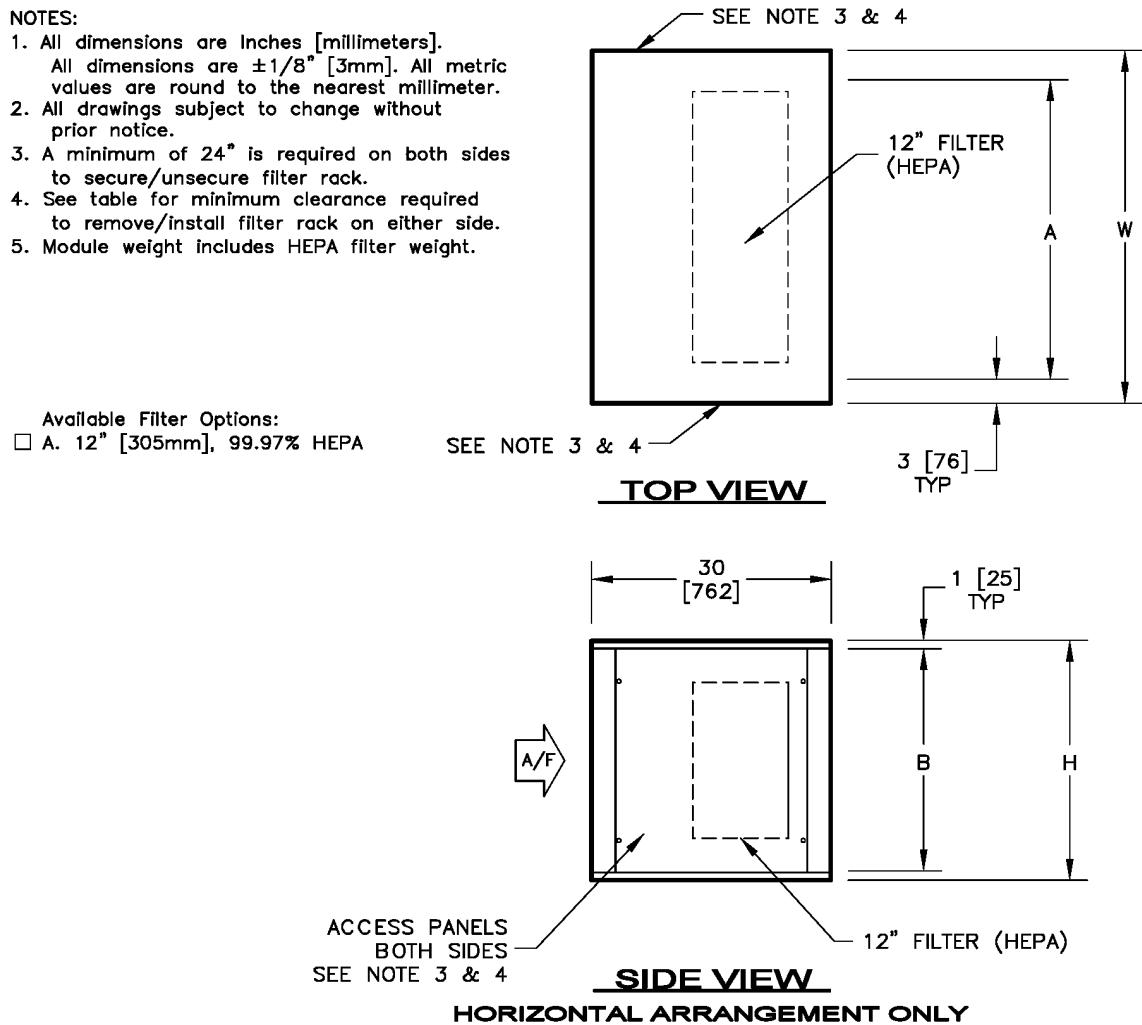
| <b>DIMENSIONS - In [mm]</b> |              |              |              |              |                |                   |              |   |                          |                            |                            |
|-----------------------------|--------------|--------------|--------------|--------------|----------------|-------------------|--------------|---|--------------------------|----------------------------|----------------------------|
| UNIT SIZE                   | H            | W            | L            | A            | B              | C                 | D            | E<br>MIN. REQUIRED<br>ACCESS MODULE<br>SEE NOTE 6 | ACCESS<br>PANEL<br>H X W | WEIGHT (NOTE 5)            |                            |
|                             |              |              |              |              |                |                   |              |   |                          | SINGLE<br>WALL<br>lbs [kg] | DOUBLE<br>WALL<br>lbs [kg] |
| 02                          | 22<br>[559]  | 30<br>[762]  | 32<br>[813]  | 20<br>[508]  | 2-3/8<br>[603] | 11-7/16<br>[291]  | 24<br>[610]  | 15<br>[381]                                       | 20 X 26<br>[508 X 660]   | 190<br>[86]                | 235<br>[106]               |
| 03                          | 22<br>[559]  | 36<br>[914]  | 32<br>[813]  | 20<br>[508]  | 2-3/8<br>[603] | 13-3/4<br>[349]   | 30<br>[762]  | 15<br>[381]                                       | 20 X 26<br>[508 X 660]   | 230<br>[104]               | 280<br>[126]               |
| 04                          | 22<br>[559]  | 44<br>[1118] | 32<br>[813]  | 20<br>[508]  | 2-3/8<br>[603] | 17-1/16<br>[433]  | 38<br>[965]  | 15<br>[381]                                       | 20 X 26<br>[508 X 660]   | 355<br>[160]               | 425<br>[191]               |
| 06                          | 30<br>[762]  | 44<br>[1118] | 36<br>[914]  | 28<br>[711]  | 3<br>[76]      | 15-3/4<br>[400]   | 38<br>[965]  | 15<br>[381]                                       | 28 X 30<br>[711 X 762]   | 360<br>[162]               | 430<br>[194]               |
| 08                          | 34<br>[864]  | 48<br>[1219] | 36<br>[914]  | 32<br>[813]  | 3<br>[76]      | 16-1/16<br>[408]  | 42<br>[1067] | 30<br>[762]                                       | 32 X 30<br>[813 X 762]   | 415<br>[187]               | 500<br>[225]               |
| 10                          | 34<br>[864]  | 58<br>[1473] | 36<br>[914]  | 32<br>[813]  | 3-3/8<br>[86]  | 21-9/16<br>[548]  | 52<br>[1321] | 30<br>[762]                                       | 32 X 30<br>[813 X 762]   | 605<br>[272]               | 700<br>[315]               |
| 12                          | 44<br>[1118] | 66<br>[1676] | 40<br>[1016] | 42<br>[1067] | 8<br>[203]     | 24-3/16<br>[614]  | 60<br>[1524] | 30<br>[762]                                       | 42 X 34<br>[1067 X 864]  | 610<br>[275]               | 720<br>[324]               |
| 14                          | 44<br>[1118] | 70<br>[1778] | 40<br>[1016] | 42<br>[1067] | 8<br>[203]     | 23-15/16<br>[608] | 64<br>[1626] | 30<br>[762]                                       | 42 X 34<br>[1067 X 864]  | 715<br>[322]               | 830<br>[374]               |
| 17                          | 44<br>[1118] | 82<br>[2083] | 40<br>[1016] | 42<br>[1067] | 8<br>[203]     | 29-15/16<br>[760] | 76<br>[1930] | 30<br>[762]                                       | 42 X 34<br>[1067 X 864]  | 735<br>[331]               | 860<br>[387]               |

**Figure 49: Horizontal Plug Fan (HPM)**

**NOTES:**

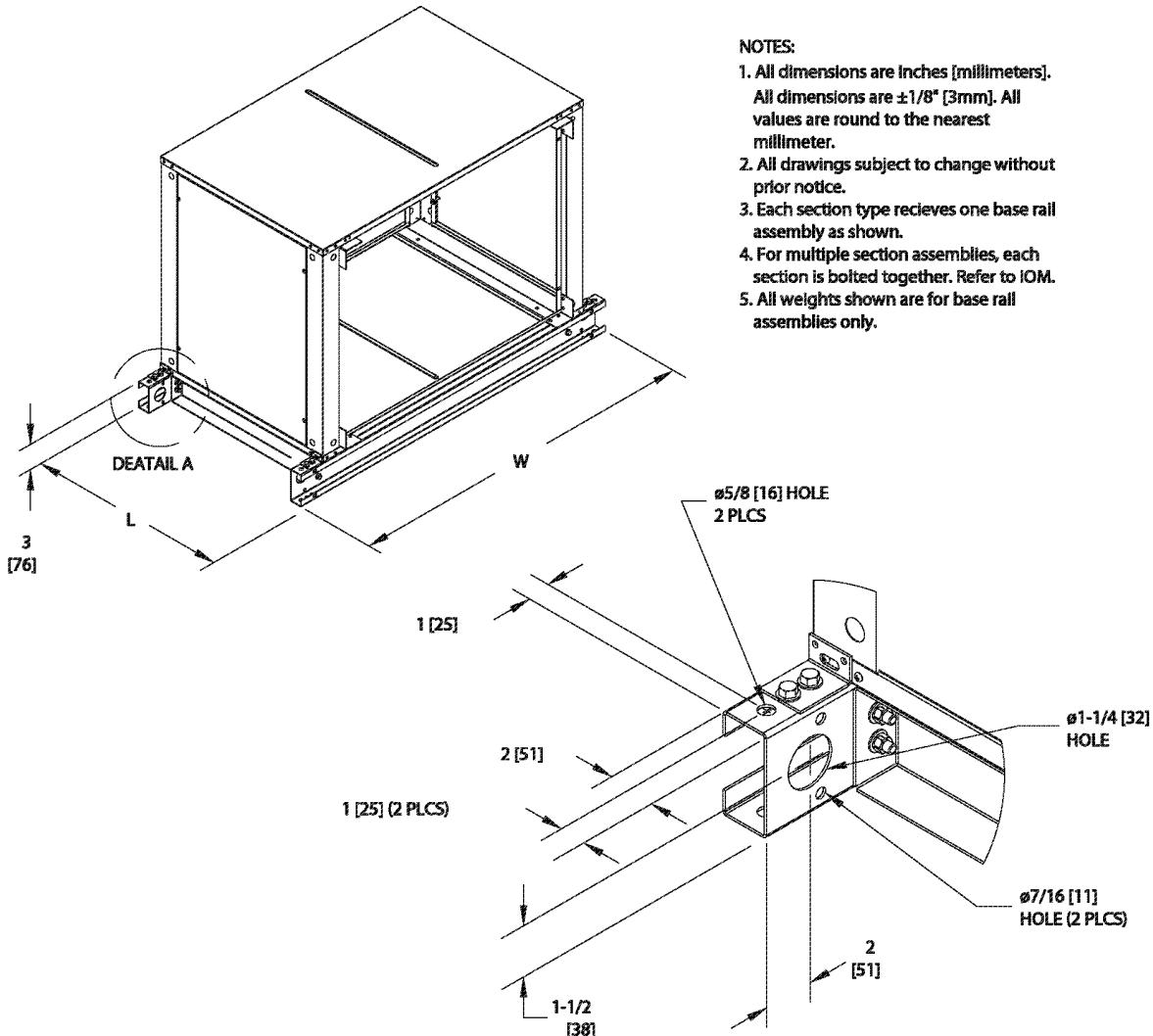
1. All dimensions are inches [millimeters].  
All dimensions are  $\pm 1/8"$  [3mm]. All metric values are round to the nearest millimeter.
2. All drawings subject to change without prior notice.
3. A minimum of 24" is required on both sides to secure/unsecure filter rack.
4. See table for minimum clearance required to remove/install filter rack on either side.
5. Module weight includes HEPA filter weight.

**Available Filter Options:**  
 A. 12" [305mm], 99.97% HEPA



| <b>DIMENSIONS - In [mm]</b> |              |              |                         |  |                      |                      |                     |              |                                |
|-----------------------------|--------------|--------------|-------------------------|--|----------------------|----------------------|---------------------|--------------|--------------------------------|
| UNIT SIZE                   | H            | W            | ACCESS PANEL H X W      | FILTER H X W (QTY)                               | WEIGHT-SEE NOTE 5    |                      | LEAVING AIR OPENING |              | FILTER REMOVAL SEE NOTES 3 & 4 |
|                             |              |              |                         |  | SINGLE WALL lbs [kg] | DOUBLE WALL lbs [kg] | A                   | B            |                                |
| 02                          | 22<br>[559]  | 30<br>[762]  | 20 X 24<br>[508 X 610]  | (1)15 [381] X 20 [508]                           | 125<br>[56]          | 150<br>[68]          | 24<br>[610]         | 20<br>[508]  | 20<br>[508]                    |
| 03                          | 22<br>[559]  | 36<br>[914]  | 20 X 24<br>[508 X 610]  | (2)15 [381] X 15 [381]                           | 155<br>[70]          | 185<br>[83]          | 30<br>[762]         | 20<br>[508]  | 30<br>[762]                    |
| 04                          | 22<br>[559]  | 44<br>[1118] | 20 X 24<br>[508 X 610]  | (2)15 [381] X 20 [508]                           | 185<br>[83]          | 220<br>[99]          | 38<br>[965]         | 20<br>[508]  | 40<br>[1016]                   |
| 06                          | 30<br>[762]  | 44<br>[1118] | 28 X 24<br>[711 X 610]  | (2)25 [635] X 40 [1016]                          | 245<br>[110]         | 235<br>[106]         | 38<br>[965]         | 28<br>[711]  | 40<br>[1016]                   |
| 08                          | 34<br>[864]  | 48<br>[1219] | 32 X 24<br>[813 X 610]  | (4)15 [381] X 20 [508]                           | 290<br>[131]         | 335<br>[151]         | 42<br>[1067]        | 32<br>[613]  | 40<br>[1016]                   |
| 10                          | 34<br>[864]  | 58<br>[1473] | 32 X 24<br>[813 X 610]  | (4)15 [381] X 15 [381]<br>(2)15 [381] X 20 [508] | 345<br>[155]         | 395<br>[178]         | 52<br>[1321]        | 32<br>[613]  | 50<br>[1270]                   |
| 12                          | 44<br>[1118] | 66<br>[1676] | 42 X 24<br>[1067 X 610] | (6)20 [508] X 15 [381]                           | 415<br>[187]         | 475<br>[214]         | 60<br>[1524]        | 42<br>[1067] | 45<br>[1143]                   |
| 14                          | 44<br>[1118] | 70<br>[1778] | 42 X 24<br>[1067 X 610] | (2)20 [508] X 15 [381]<br>(4)20 [508] X 15 [381] | 470<br>[212]         | 530<br>[239]         | 64<br>[1626]        | 42<br>[1067] | 55<br>[1397]                   |
| 17                          | 44<br>[1118] | 82<br>[2083] | 42 X 24<br>[1067 X 610] | (4)20 [508] X 25 [635]<br>(2)20 [508] X 15 [381] | 555<br>[250]         | 610<br>[275]         | 76<br>[1930]        | 42<br>[1067] | 65<br>[1651]                   |

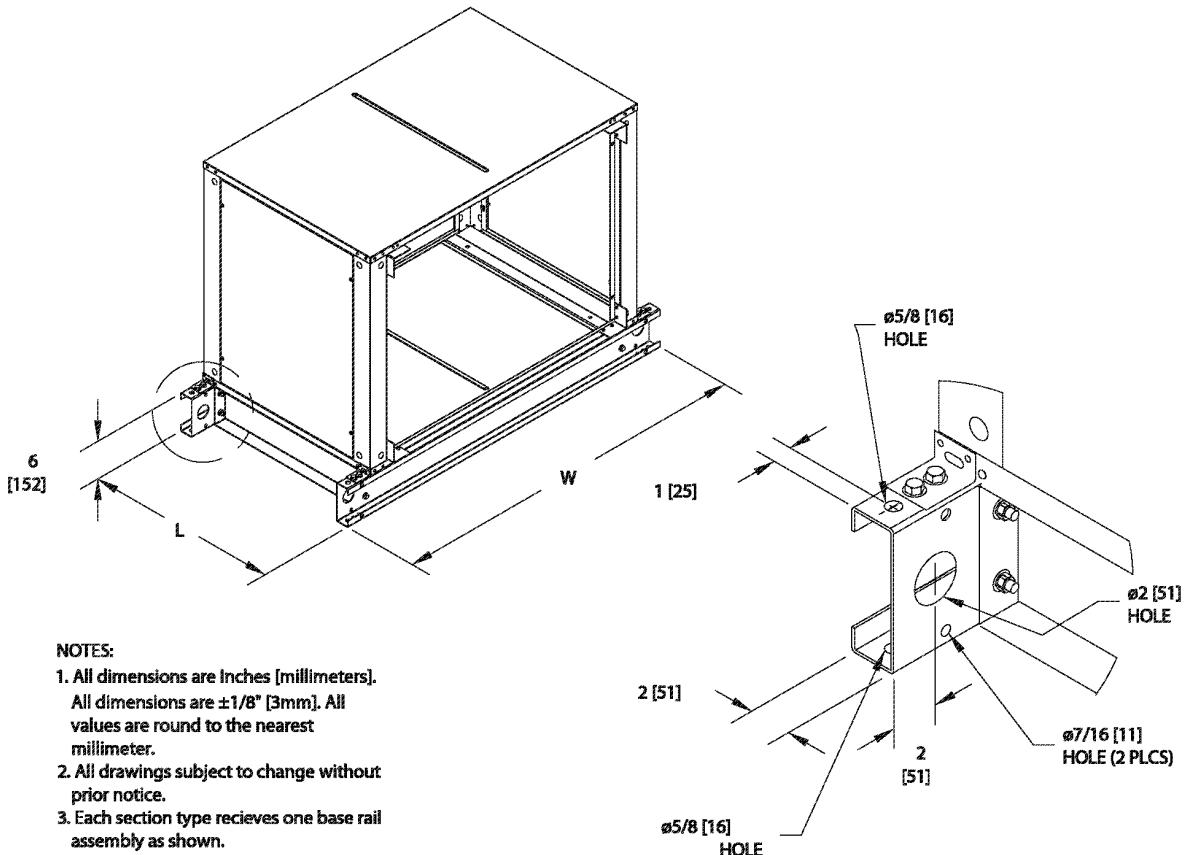
**Figure 50: Medium High-Efficiency Filter Module (MHM)**



DEATAIL A

| DIMENSIONS - In [mm] |                   |              |            |                   |             |            |                   |              |            |                   |             |            |                   |                   |                   |                   |                   |  |
|----------------------|-------------------|--------------|------------|-------------------|-------------|------------|-------------------|--------------|------------|-------------------|-------------|------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| SEGMENT              | FCM<br>PHM<br>HEM |              |            | HFM<br>XFM<br>HPM |             |            | VCM<br>VFM<br>RFM |              |            | LAM<br>LFM        |             | LMM<br>LPM |                   | EHD<br>MAM<br>MCM | MFM<br>MHM<br>MMM | MVM               | SAM<br>SCM<br>SFM |  |
|                      | UNIT<br>SIZE      | W            | L          | WEIGHT<br>lbs[kg] | W           | L          | WEIGHT<br>lbs[kg] | W            | L          | WEIGHT<br>lbs[kg] | W           | L          | WEIGHT<br>lbs[kg] | W                 | L                 | WEIGHT<br>lbs[kg] |                   |  |
| 02                   | 38<br>[965]       | 46<br>[1168] | 36<br>[16] | 38<br>[965]       | 32<br>[813] | 30<br>[14] | 38<br>[965]       | 42<br>[1067] | 34<br>[15] | 38<br>[965]       | 30<br>[762] | 29<br>[13] | 38<br>[965]       | 15<br>[381]       | 23<br>[10]        |                   |                   |  |
| 03                   | 44<br>[1118]      | 46<br>[1168] | 38<br>[17] | 44<br>[1118]      | 32<br>[813] | 33<br>[15] | 44<br>[1118]      | 42<br>[1067] | 37<br>[17] | 44<br>[1118]      | 30<br>[762] | 32<br>[14] | 44<br>[1118]      | 15<br>[381]       | 26<br>[12]        |                   |                   |  |
| 04                   | 52<br>[1321]      | 46<br>[1168] | 42<br>[19] | 52<br>[1321]      | 32<br>[813] | 36<br>[16] | 52<br>[1321]      | 42<br>[1067] | 40<br>[18] | 52<br>[1321]      | 30<br>[762] | 35<br>[16] | 52<br>[1321]      | 15<br>[381]       | 30<br>[14]        |                   |                   |  |
| 06                   | 52<br>[1321]      | 50<br>[1270] | 51<br>[23] | 52<br>[1321]      | 36<br>[914] | 38<br>[17] | 52<br>[1321]      | 42<br>[1067] | 40<br>[18] | 52<br>[1321]      | 30<br>[762] | 35<br>[16] | 52<br>[1321]      | 15<br>[381]       | 30<br>[14]        |                   |                   |  |
| 08                   | 56<br>[1422]      | 50<br>[1270] | 54<br>[24] | 56<br>[1422]      | 36<br>[914] | 39<br>[18] | 56<br>[1422]      | 42<br>[1067] | 42<br>[19] | 56<br>[1422]      | 30<br>[762] | 37<br>[17] | 56<br>[1422]      | 15<br>[381]       | 31<br>[14]        |                   |                   |  |

Figure 51: 3" Base Rails



| DIMENSIONS - In [mm] |                   |              |                   |                   |                   |                   |              |                   |                   |              |                   |                   |              |                   |                   |
|----------------------|-------------------|--------------|-------------------|-------------------|-------------------|-------------------|--------------|-------------------|-------------------|--------------|-------------------|-------------------|--------------|-------------------|-------------------|
| SEGMENT              | FCM<br>PHM<br>HEM |              |                   | HFM<br>XFM<br>HPM | VCM<br>VFM<br>RFM | LAM<br>LFM        | LMM<br>LPM   | EHD<br>MAM<br>MCM | MFM<br>MHM        | MVM          | SAM<br>SCM<br>SFM | W                 | L            | WEIGHT<br>lbs[kg] |                   |
| UNIT<br>SIZE         | W                 | L            | WEIGHT<br>lbs[kg] | W                 | L                 | WEIGHT<br>lbs[kg] | W            | L                 | WEIGHT<br>lbs[kg] | W            | L                 | WEIGHT<br>lbs[kg] | W            | L                 | WEIGHT<br>lbs[kg] |
| 02                   | 38<br>[965]       | 46<br>[1168] | 55<br>[25]        | 38<br>[965]       | 32<br>[813]       | 44<br>[20]        | 38<br>[965]  | 42<br>[1067]      | 50<br>[23]        | 38<br>[965]  | 30<br>[762]       | 43<br>[20]        | 38<br>[965]  | 15<br>[381]       | 34<br>[15]        |
| 03                   | 44<br>[1118]      | 46<br>[1168] | 60<br>[27]        | 44<br>[1118]      | 32<br>[813]       | 48<br>[22]        | 44<br>[1118] | 42<br>[1067]      | 54<br>[24]        | 44<br>[1118] | 30<br>[762]       | 47<br>[21]        | 44<br>[1118] | 15<br>[381]       | 38<br>[17]        |
| 04                   | 52<br>[1321]      | 46<br>[1168] | 64<br>[29]        | 52<br>[1321]      | 32<br>[813]       | 53<br>[24]        | 52<br>[1321] | 42<br>[1067]      | 59<br>[27]        | 52<br>[1321] | 30<br>[762]       | 52<br>[24]        | 52<br>[1321] | 15<br>[381]       | 44<br>[20]        |
| 06                   | 52<br>[1321]      | 50<br>[1270] | 63<br>[29]        | 52<br>[1321]      | 36<br>[914]       | 55<br>[25]        | 52<br>[1321] | 42<br>[1067]      | 59<br>[27]        | 52<br>[1321] | 30<br>[762]       | 52<br>[24]        | 52<br>[1321] | 15<br>[381]       | 44<br>[20]        |
| 08                   | 56<br>[1422]      | 50<br>[1270] | 66<br>[30]        | 56<br>[1422]      | 36<br>[914]       | 58<br>[26]        | 56<br>[1422] | 42<br>[1067]      | 62<br>[28]        | 56<br>[1422] | 30<br>[762]       | 55<br>[25]        | 56<br>[1422] | 15<br>[381]       | 46<br>[21]        |
| 10                   | 66<br>[1676]      | 50<br>[1270] | 73<br>[33]        | 66<br>[1676]      | 36<br>[914]       | 65<br>[29]        | 66<br>[1676] | 42<br>[1067]      | 68<br>[31]        | 66<br>[1676] | 30<br>[762]       | 61<br>[28]        | 66<br>[1676] | 15<br>[381]       | 53<br>[24]        |
| 12                   | 74<br>[1880]      | 53<br>[1346] | 80<br>[36]        | 74<br>[1880]      | 40<br>[1016]      | 72<br>[33]        | 74<br>[1880] | 42<br>[1067]      | 74<br>[34]        | 74<br>[1880] | 30<br>[762]       | 67<br>[30]        | 74<br>[1880] | 15<br>[381]       | 58<br>[26]        |
| 14                   | 78<br>[1981]      | 53<br>[1346] | 82<br>[37]        | 78<br>[1981]      | 40<br>[1016]      | 75<br>[34]        | 78<br>[1981] | 42<br>[1067]      | 76<br>[34]        | 78<br>[1981] | 30<br>[762]       | 69<br>[31]        | 78<br>[1981] | 15<br>[381]       | 61<br>[28]        |
| 17                   | 90<br>[2286]      | 53<br>[1346] | 90<br>[41]        | 90<br>[2286]      | 40<br>[1016]      | 83<br>[38]        | 90<br>[2286] | 42<br>[1067]      | 84<br>[38]        | 90<br>[2286] | 30<br>[762]       | 77<br>[35]        | 90<br>[2286] | 15<br>[381]       | 69<br>[31]        |

Figure 52: 6" Base Rails

## Metric Conversion

Table 10: Metric Conversion Chart

| International System of Units (SI) Unit | Conversion Factor | = English Unit             | Conversion Factor | = SI Unit       | SI Unit                                | Conversion Factor        | = English Unit        | Conversion Factor        | = SI Unit        |  |  |  |  |
|---|-------------------|----------------------------|-------------------|-----------------|--|--------------------------|-----------------------|--------------------------|------------------|--|--|--|--|
| <b>Area</b>                             |                   |                            |                   |                 | <b>Temperature Interval</b>            |                          |                       |                          |                  |  |  |  |  |
| cm <sup>2</sup>                         |                   |                            | 100               | mm <sup>2</sup> | °C                                     | 1.8                      | °F                    | 0.5556                   | °C               |  |  |  |  |
| cm <sup>2</sup>                         | 0.1550            | in <sup>2</sup>            | 645.2             | mm <sup>2</sup> | <b>Velocity</b>                        |                          |                       |                          |                  |  |  |  |  |
| m <sup>2</sup>                          | 10.76             | ft <sup>2</sup>            | 0.09290           | m <sup>2</sup>  | m/s                                    | 3.281                    | ft/s                  | 0.3048                   | m/s              |  |  |  |  |
| <b>Length</b>                           |                   |                            |                   |                 | m/s                                    | 196.9                    | ft/min                | 0.00508                  | m/s              |  |  |  |  |
| mm                                      | 0.03937           | in.                        | 25.4              | mm              | <b>Volume</b>                          |                          |                       |                          |                  |  |  |  |  |
| mm                                      | 0.003281          | ft                         | 304.8             | mm              | mm <sup>3</sup>                        |                          |                       | 1.0x10 <sup>-6</sup>     | L                |  |  |  |  |
| m                                       | 3.281             | ft                         | 0.3048            | m               | mm <sup>3</sup>                        | 6.102x10 <sup>-5</sup>   | in. <sup>3</sup>      | 0.01639                  | L                |  |  |  |  |
| m                                       | 1.094             | yd.                        | 0.9144            | m               | L                                      | 0.03531                  | ft <sup>3</sup>       | 28.32                    | L                |  |  |  |  |
| <b>Mass</b>                             |                   |                            |                   |                 | m <sup>3</sup>                         | 1.308                    | yd <sup>3</sup>       | 0.7646                   | m <sup>3</sup>   |  |  |  |  |
| g                                       | 0.03527           | oz.                        | 28.35             | g               | L                                      | 0.2642                   | U.S. gal              | 3.785                    | L                |  |  |  |  |
| kg                                      | 2.205             | lb.                        | 0.4536            | kg              | L                                      | 2.113                    | U.S. pint             | 0.4732                   | L                |  |  |  |  |
| tonne, Mg                               | 1.102             | U.S. ton (2,000 lb.)       | 0.9072            | tonne, Mg       | mL, cm <sup>3</sup>                    | 0.03381                  | U.S. oz               | 29.57                    | mL               |  |  |  |  |
| <b>Power</b>                            |                   |                            |                   |                 | <b>Volume / Time</b>                   |                          |                       |                          |                  |  |  |  |  |
| kcal/h                                  |                   |                            | 1.163             | W               | m <sup>3</sup> /h                      |                          |                       | 0.2778                   | L/s              |  |  |  |  |
| kcal/h                                  | 3.968             | Btu/h                      | 0.2931            | W               | m <sup>3</sup> /h                      | 0.5886                   | ft <sup>3</sup> /min  | 0.4719                   | L/s              |  |  |  |  |
| HP metric                               |                   |                            | 0.7355            | kW              | m <sup>3</sup> /h                      | 4.403                    | U.S. gal/min          | 0.06309                  | L/s              |  |  |  |  |
| HP metric                               | 0.9863            | HP (550 ft lb. )<br>S      | 0.7457            | kW              | L/h                                    |                          |                       | 2.778x10 <sup>-4</sup>   | L/s              |  |  |  |  |
| Mcal/h                                  |                   |                            | 1.163             | kW              | L/h                                    | 4.403x10 <sup>-3</sup>   | U.S. gal/min          | 0.06309                  | L/s              |  |  |  |  |
| Mcal/h                                  | 0.3307            | Ton refr.                  | 3.517             | kW              | (m <sup>3</sup> /h)/<br>(1,000 kcal/h) | 1.780                    | cfm/ton               | 0.1342                   | L/s - kW         |  |  |  |  |
| <b>Pressure</b>                         |                   |                            |                   |                 |  |                          |                       |                          |                  |  |  |  |  |
| mm wg 4°C                               |                   |                            | 9.806             | Pa              |  |                          |                       |                          |                  |  |  |  |  |
| mm wg 4°C                               | 0.03937           | in H <sub>2</sub> O 39.2°F | 249.1             | Pa              |  |                          |                       |                          |                  |  |  |  |  |
| mm Hg 0°C                               |                   |                            | 0.1333            | kPa             | <b>SI UNIT</b>                         | <b>CONVERSION FACTOR</b> | <b>= ENGLISH UNIT</b> | <b>CONVERSION FACTOR</b> | <b>= SI UNIT</b> |  |  |  |  |
| mm Hg 0°C                               | 0.03937           | in Hg 32°F                 | 3.386             | kPa             |  |                          |                       |                          |                  |  |  |  |  |
| kg/cm <sup>2</sup>                      |                   |                            | 98.07             | kPa             | <b>Temperature</b>                     |                          |                       |                          |                  |  |  |  |  |
| kg/cm <sup>2</sup>                      | 14.22             | psi                        | 6.895             | kPa             | °C                                     |                          |                       | °C + 273.15              | °K               |  |  |  |  |
| mH <sub>2</sub> O                       | 3.281             | ft H <sub>2</sub> O        | 2.989             | kPa             | °C                                     | (°C x 1.8) + 32          | °F                    | (°F - 32) ÷ 1.8          | °C               |  |  |  |  |

**Table 11: Metric Conversion Chart – Legend**

| <b>Abbreviation</b> | <b>Description</b>      |
|---------------------|-------------------------|
| M                   | Mega- ( $10^6$ )        |
| k                   | Kilo- ( $10^3$ )        |
| d                   | Deci ( $10^{-1}$ )      |
| c                   | Centi ( $10^{-2}$ )     |
| m                   | Milli ( $10^{-3}$ )     |
| m                   | Meter                   |
| cal                 | Calorie                 |
| kg                  | Kilogram (mass)         |
| kgf                 | Kilogram – force        |
| kp                  | Kilogram – force        |
| L                   | Liter                   |
| °C                  | Degrees Celsius         |
| K                   | Kelvin                  |
| W                   | Watt                    |
| Pa                  | Pascal                  |
| J                   | Joule                   |
| N                   | Newton                  |
| h                   | Hour                    |
| m                   | Minute                  |
| s                   | Second                  |
| g                   | gram                    |
| HP metric           | Metric horsepower       |
| mm wg               | Millimeters water gauge |
| mmCE                | Millimeters water gauge |
| mmHg                | Millimeters Mercury     |
| tonne               | 1,000 kg                |
| kcal                | Kilocalories            |
| bar                 | 100 kPa                 |



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