

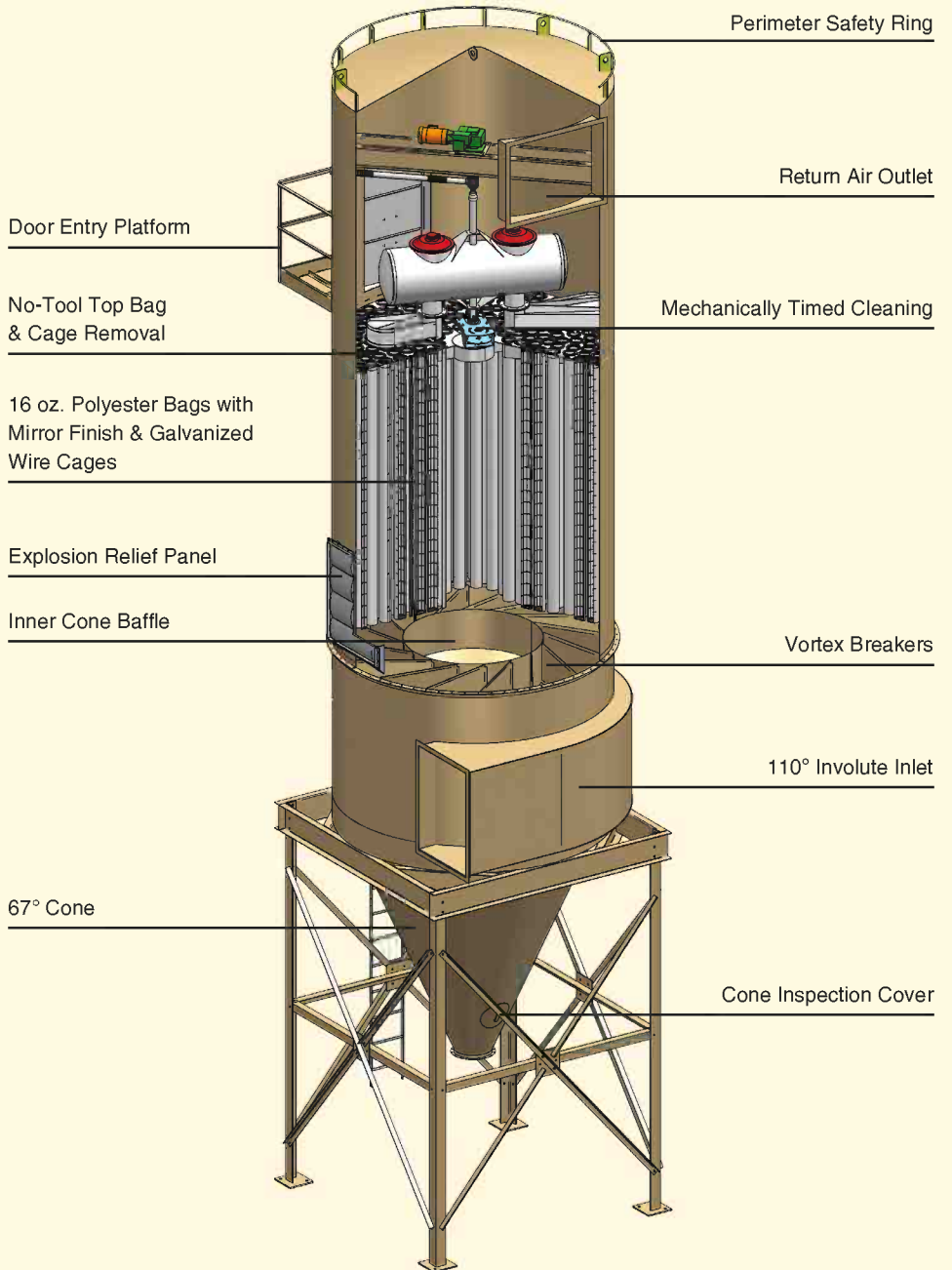
***Honeyville***

# MPC Series Baghouse Filters

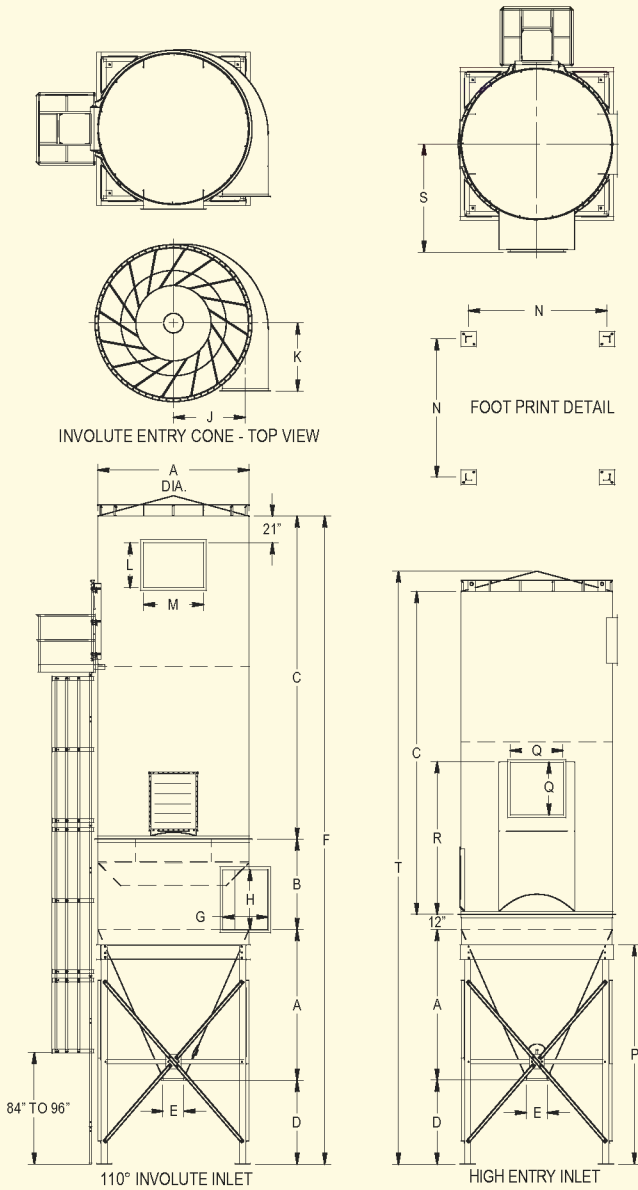


18 Sizes – Ranging from 9,000 to 57,400 CFM





# HONEYVILLE MPC SERIES CYCLONIC BAGHOUSE FILTER



**NOTES:**

- Medium pressure, back flush cleaning of the bags
- No-tool top bag and cage removal
- Low pressure 110° involute inlet section with inner cone baffle and vortex breakers (Optional high entry inlet)
- Standard filter cone is a constant 67°
- Rupture type explosion relief panels
- Top perimeter grab rail provided as an anchor for fall protection equipment
- Service platform and hinged access door to walk-in plenum for filter inspection and service
- Galvanized service ladder and safety cage is standard for all units
- Multiple orientations are available for the inlet, outlet, service ladder, and explosion relief panels
- Differential pressure gauge is supplied standard
- "E" dimension may vary as required
- Bolted leg structure (shipped K.D.) is standard with both inlet entry types
- Level indicators are available

**CONSTRUCTION MATERIALS:**

| Filter Model | Standard Material (hot-rolled carbon steel) |            |          |
|--------------|---|------------|----------|
|              | Inlet Section*                              | Str't Side | Cone     |
| MPC-117      | 10 Gauge                                    | 10 Gauge   | 10 Gauge |
| MPC-153      | 3/16"                                       | 10 Gauge   | 10 Gauge |
| MPC-260      | 3/16"                                       | 3/16"      | 3/16"    |
| MPC-361      | 1/4"  | 3/16"      | 3/16"    |
| MPC-416      | 5/16"                                       | 1/4"       | 1/4"     |
| MPC-494      | 5/16"                                       | 1/4"       | 1/4"     |

*\*Inlet Scroll Back only. Remainder of Inlet same as Str't Side*

- Optional upgrade for inlet section and cone to Heavy Duty and Extra Heavy Duty
- Wire Cages: 4.5" Dia. galvanized carbon steel
- Bags: 4.6" Dia. 16 oz. PolyFelt, mirror finish with micro seal cuff
- Continuous welded exterior and strip welded interior
- Flanged and bolted construction on all adjoining parts
- Finish
  - Standard spatter cleaning and metal preparation
  - Interior and exterior prime coated
  - Exterior coated with industrial enamel

**MPC FILTER GENERAL INFORMATION**

| Model      | Dia. | Sq. Ft. Of Cloth | No. of Bags | Bag Length | Foot Plate | General Dimensions<br>(shown in inches, unless otherwise noted) |    |     |    |    |     |    |    |        |        |    |    |         |     |    |         |     |     |
|------------|------|------------------|-------------|------------|------------|---|----|-----|----|----|-----|----|----|--------|--------|----|----|---------|-----|----|---------|-----|-----|
|            |      |                  |             |            |            | A   | B  | C   | D  | E  | F   | G  | H  | J      | K      | L  | M  | N       | P   | Q  | R       | S   | T   |
| MPC-117-8  | 7'   | 1,133            | 117         | 8'         | 10x10      | 84  | 48 | 209 | 60 | 12 | 401 | 24 | 32 | 40-1/2 | 41-1/4 | 21 | 35 | 74      | 132 | 26 | 104-1/2 | 64  | 376 |
| MPC-117-10 | 7'   | 1,416            | 117         | 10'        | 10x10      | 84  | 48 | 257 | 60 | 12 | 449 | 24 | 32 | 40-1/2 | 41-1/4 | 21 | 35 | 74      | 132 | 28 | 128-1/2 | 64  | 424 |
| MPC-117-12 | 7'   | 1,700            | 117         | 12'        | 10x10      | 84  | 48 | 305 | 60 | 12 | 497 | 24 | 32 | 40-1/2 | 41-1/4 | 21 | 35 | 74      | 132 | 32 | 152-1/2 | 64  | 472 |
| MPC-153-8  | 8'   | 1,482            | 153         | 8'         | 10x10      | 96  | 60 | 209 | 60 | 12 | 425 | 28 | 36 | 46     | 47-1/4 | 24 | 40 | 86      | 144 | 30 | 104-1/2 | 70  | 390 |
| MPC-153-10 | 8'   | 1,852            | 153         | 10'        | 10x10      | 96  | 60 | 257 | 60 | 12 | 473 | 28 | 36 | 46     | 47-1/4 | 24 | 40 | 86      | 144 | 32 | 128-1/2 | 70  | 438 |
| MPC-153-12 | 8'   | 2,223            | 153         | 12'        | 10x10      | 96  | 60 | 305 | 60 | 12 | 521 | 28 | 36 | 46     | 47-1/4 | 24 | 40 | 86      | 144 | 36 | 152-1/2 | 70  | 486 |
| MPC-260-8  | 10'  | 2,519            | 260         | 8'         | 12x12      | 120   | 72 | 209 | 72 | 16 | 473 | 36 | 48 | 57     | 56     | 30 | 48 | 110     | 180 | 38 | 104-1/2 | 82  | 429 |
| MPC-260-10 | 10'  | 3,148            | 260         | 10'        | 12x12      | 120   | 72 | 257 | 72 | 16 | 521 | 36 | 48 | 57     | 56     | 30 | 48 | 110     | 180 | 42 | 128-1/2 | 82  | 477 |
| MPC-260-12 | 10'  | 3,777            | 260         | 12'        | 12x12      | 120   | 72 | 305 | 72 | 16 | 569 | 36 | 48 | 57     | 56     | 30 | 48 | 110     | 180 | 48 | 152-1/2 | 82  | 525 |
| MPC-361-8  | 12'  | 3,498            | 361         | 8'         | 18x18      | 144   | 84 | 209 | 84 | 16 | 521 | 42 | 54 | 69     | 65     | 36 | 60 | 113-1/2 | 228 | 44 | 104-1/2 | 94  | 468 |
| MPC-361-10 | 12'  | 4,371            | 361         | 10'        | 18x18      | 144   | 84 | 257 | 84 | 16 | 569 | 42 | 54 | 69     | 65     | 36 | 60 | 113-1/2 | 228 | 50 | 128-1/2 | 94  | 516 |
| MPC-361-12 | 12'  | 5,245            | 361         | 12'        | 18x18      | 144   | 84 | 305 | 84 | 16 | 617 | 42 | 54 | 69     | 65     | 36 | 60 | 113-1/2 | 228 | 56 | 152-1/2 | 94  | 564 |
| MPC-416-8  | 13'  | 4,031            | 416         | 8'         | 18x18      | 156   | 90 | 209 | 84 | 24 | 539 | 45 | 57 | 75     | 70-1/4 | 39 | 66 | 121-1/2 | 240 | 48 | 104-1/2 | 100 | 482 |
| MPC-416-10 | 13'  | 5,037            | 416         | 10'        | 18x18      | 156   | 90 | 257 | 84 | 24 | 587 | 45 | 57 | 75     | 70-1/4 | 39 | 66 | 121-1/2 | 240 | 54 | 128-1/2 | 100 | 530 |
| MPC-416-12 | 13'  | 6,044            | 416         | 12'        | 18x18      | 156   | 90 | 305 | 84 | 24 | 635 | 45 | 57 | 75     | 70-1/4 | 39 | 66 | 121-1/2 | 240 | 60 | 152-1/2 | 100 | 578 |
| MPC-494-8  | 14'  | 4,786            | 494         | 8'         | 18x18      | 168   | 96 | 209 | 84 | 24 | 557 | 48 | 64 | 81     | 75-1/2 | 42 | 78 | 130     | 252 | 52 | 104-1/2 | 106 | 496 |
| MPC-494-10 | 14'  | 5,982            | 494         | 10'        | 18x18      | 168   | 96 | 257 | 84 | 24 | 605 | 48 | 64 | 81     | 75-1/2 | 42 | 78 | 130     | 252 | 58 | 128-1/2 | 106 | 544 |
| MPC-494-12 | 14'  | 7,177            | 494         | 12'        | 18x18      | 168   | 96 | 305 | 84 | 24 | 653 | 48 | 64 | 81     | 75-1/2 | 42 | 78 | 130     | 252 | 66 | 152-1/2 | 106 | 592 |

## MPC FILTER DESCRIBED

**HONEYVILLE MPC CYCLONIC BAGHOUSE FILTERS** are recommended for medium to heavy dust load applications utilizing cyclone separation and bag filtration. This design includes a 110° involute inlet with an inner cyclone baffle and vortex breakers to insure minimal air swirl in the bag chamber. The primary material separation takes place in the 67° cone section. The involute inlet allows for better material separation by providing an extended transition as the dust laden air enters the cyclone. By increasing the material separation in the cyclone section, the dust load on the bags is significantly decreased allowing for better air flow and extended bag life.

**THE MPC BAGHOUSE FILTER** will effectively filter such materials as grain, feed, flour, minerals, cement products, plastics, and all types of wood waste. The filter utilizes high volume, medium pressure cleaning of the bags. The NO-TOOL top bag removal allows for easy inspection or service.

**THE MPC FILTER OPERATES AS FOLLOWS:** Dust laden air enters the involute inlet directly above the cone section. Large particles enter the cone section, separate, and exit out the bottom while smaller particles flow upward into the bag chamber and are retained on the exterior of the filter bags. The clean air flows upward through the bags and exits via the open top of the bags into the clean air plenum. This clean air may be vented outside or inside a building.

**THE MPC BAG CLEANING PROCESS** is an innovative hybrid of traditional high pressure pulse jet and reverse air cleaning of the bags. The cleaning mechanism is comprised of a large compressed air tank mounted on a rotating assembly with diaphragm valves connected to manifolds with air discharge nozzles. A mechanical timing control with precision adjustment directs a high volume, medium pressure burst of air through the nozzles and into the bags. As the burst of air enters the bags, filtration is momentarily stopped. As the compressed air bubble travels down the bags, it is moving the fabric outward to its elastic limit. The bag movement is stopped while the dust continues to move away from the bag surface because of the large volume of air that is following the initial pulse action. The released dust cake is discharged into the cone of the filter and is blended with larger particulate that is being separated.

Manufactured by



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