



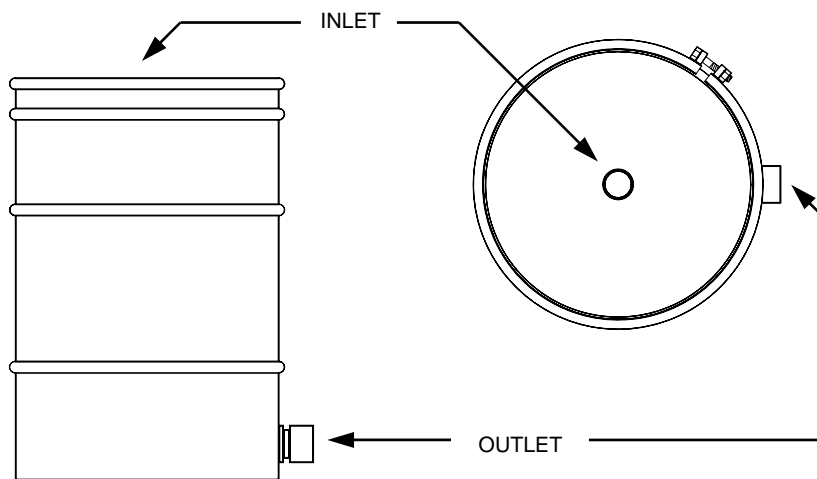
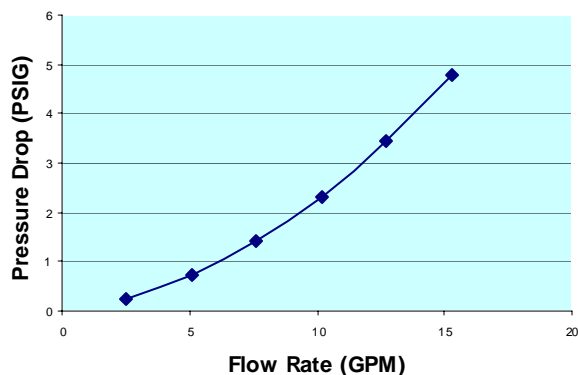
MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-30

The WS-30 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30)



| WS-30 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 2'6" | Vessel/Internal Piping Materials | CS / SCH 40 PVC |
| Diameter | 18" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 12 PSIG / 140° F |
| GAC Fill (lbs) | 100 | Cross Sectional Bed Area | 1.8 FT ² |
| Shipping / Operational Weight (lbs) | 135/325 | Bed Depth/Volume | 1.8 FT / 3.3 FT ³ |

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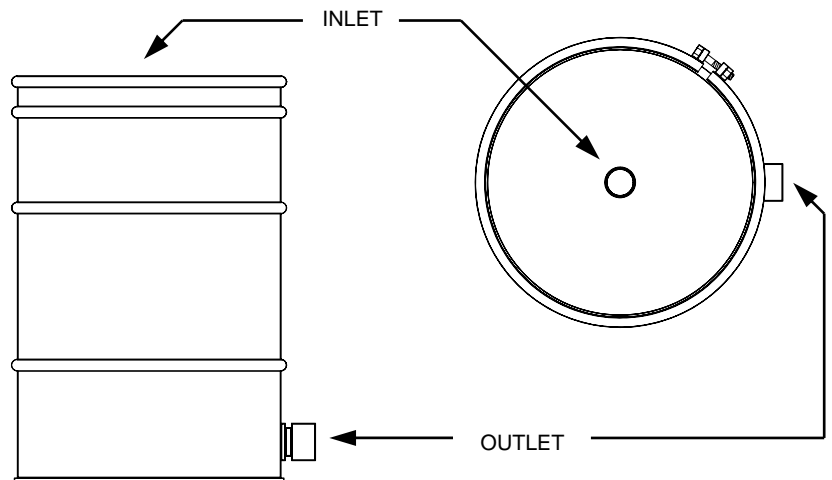
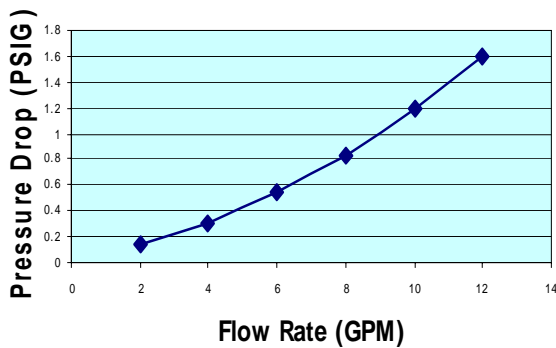
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-55

The WS-55 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-55 SPECIFICATIONS

| | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 2'10" | Vessel/Internal Piping Materials | CS / SCH 40 PVC |
| Diameter | 23" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 12 PSIG / 140° F |
| GAC Fill (lbs) | 200 | Cross Sectional Bed Area | 2.8 FT ² |
| Shipping / Operational Weight (lbs) | 250/595 | Bed Depth/Volume | 2.4 FT / 6.6 FT ³ |

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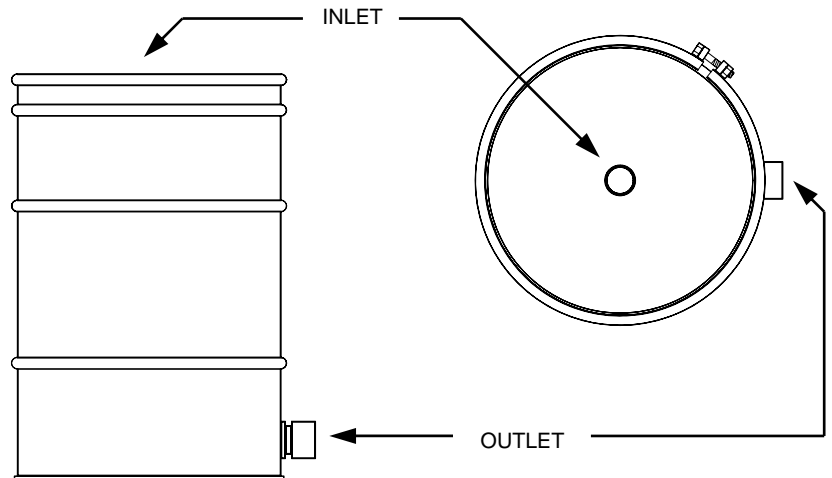
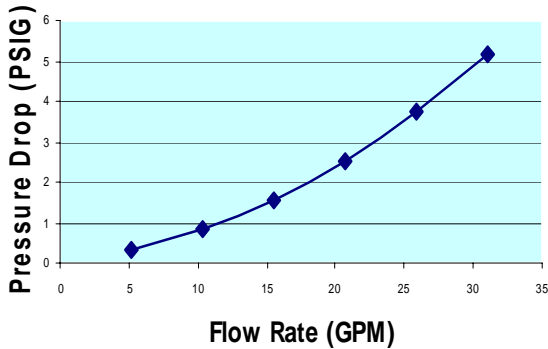
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-85

The WS-85 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-85 SPECIFICATIONS

| | | | |
|-------------------------------------|---------|----------------------------------|-----------------------------|
| Overall Height | 3'3" | Vessel/Internal Piping Materials | CS / SCH 40 PVC |
| Diameter | 26" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 8 PSIG / 140° F |
| GAC Fill (lbs) | 300 | Cross Sectional Bed Area | 3.7 FT ² |
| Shipping / Operational Weight (lbs) | 380/905 | Bed Depth/Volume | 2.7 FT / 10 FT ³ |

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PRODUCT DATA SHEET

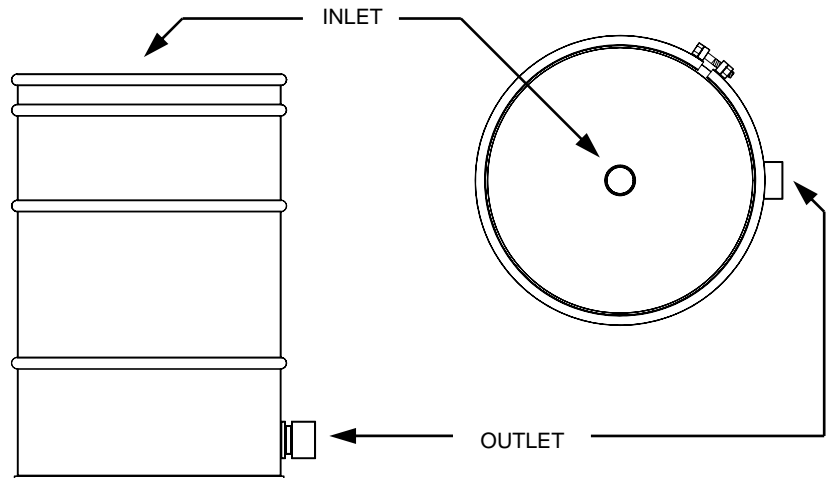
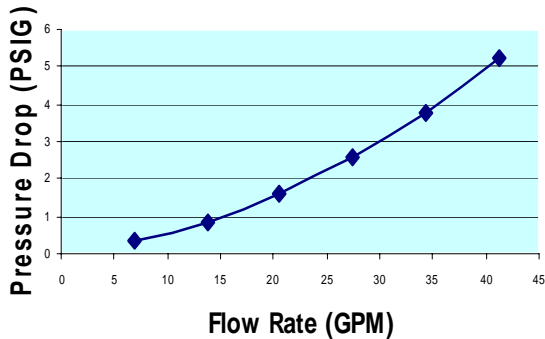
WS SERIES FILTERS

MODEL WS-110

The WS-110 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| WS-110 SPECIFICATIONS | | | |
|-------------------------------------|-----------|----------------------------------|-----------------------------|
| Overall Height | 3'7" | Vessel/Internal Piping Materials | CS / SCH 40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 3 PSIG / 140° F |
| GAC Fill (lbs) | 400 | Cross Sectional Bed Area | 4.9 FT ² |
| Shipping / Operational Weight (lbs) | 500/1,170 | Bed Depth/Volume | 2.7 FT / 13 FT ³ |

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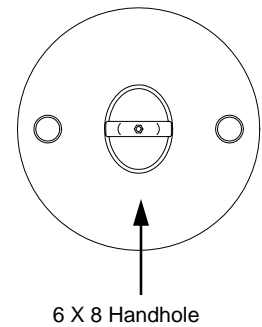
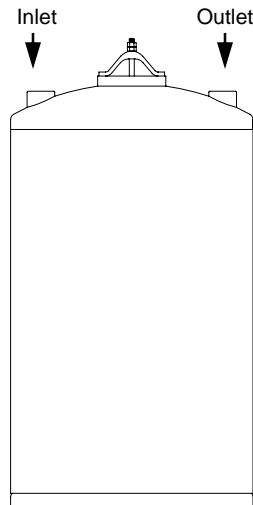
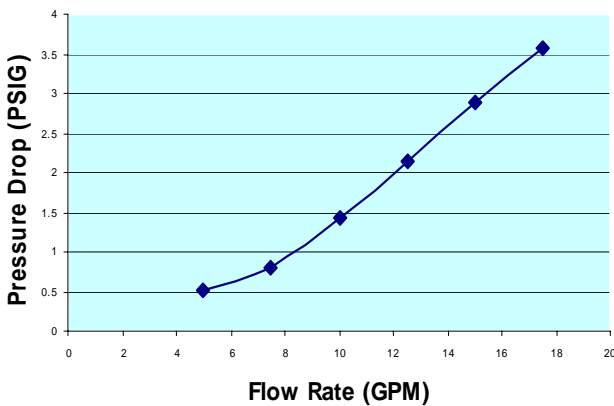
WS SERIES FILTERS

MODEL WS-250

The WS-250 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled 8*30 GAC)



| WS-250 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 3'11" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 24" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 60 PSIG / 140° F |
| GAC Fill (lbs) | 250 | Cross Sectional Bed Area | 3.1 FT ² |
| Shipping / Operational Weight (lbs) | 415/850 | Bed Depth/Volume | 2.8 FT / 8.7 FT ³ |

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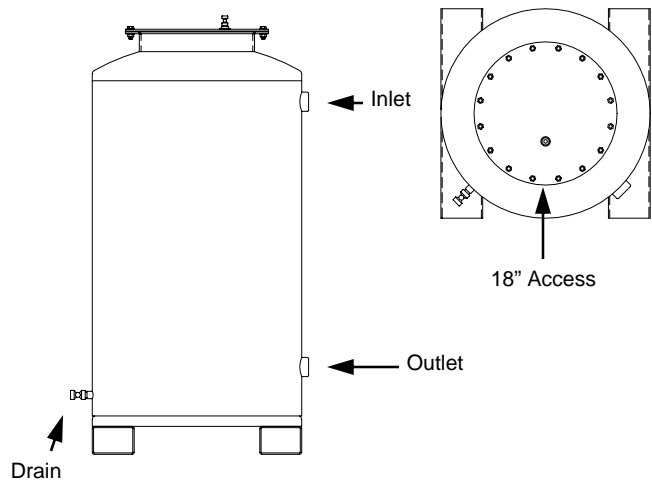
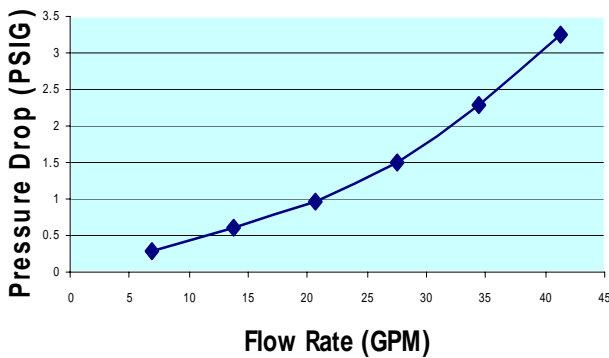
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-500

The WS-500 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| WS-500 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-------------------------------|
| Overall Height | 5'3" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1/2" / 1/4" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 500 | Cross Sectional Bed Area | 4.9 FT ² |
| Shipping / Operational Weight (lbs) | 875/1,765 | Bed Depth/Volume | 3.4 FT / 16.7 FT ³ |

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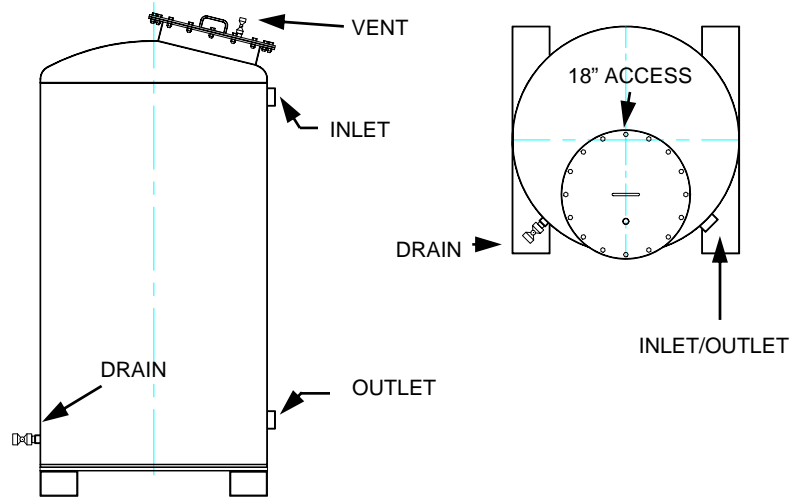
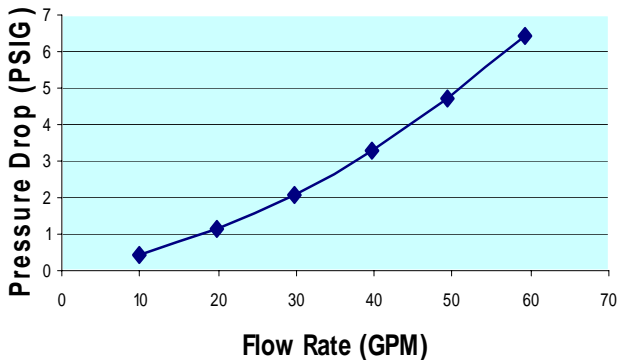
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-1000

The WS-1000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-1000 SPECIFICATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|---------------------------|
| Overall Height | 6'5" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 36" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1/2" / 1/4" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 1,000 | Cross Sectional Bed Area | 7 FT ² |
| Shipping / Operational Weight (lbs) | 1,500/3,100 | Bed Depth/Volume | 5 FT / 33 FT ³ |

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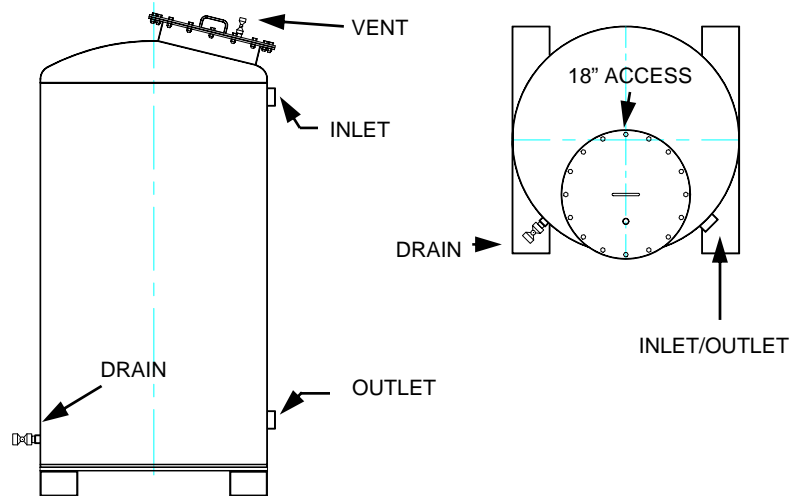
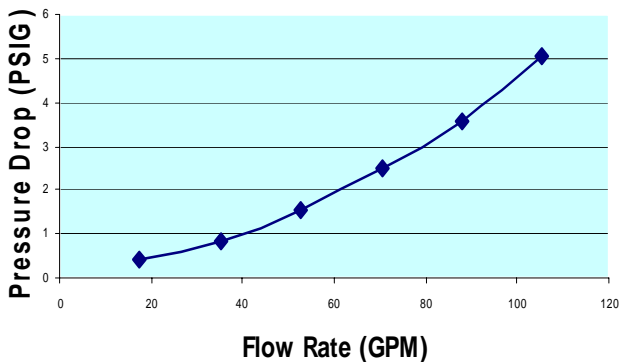
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-2000

The WS-2000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-2000 SPECIFICATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|-------------------------------|
| Overall Height | 7'7" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 48" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 3/4" / 1/2" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 2000 | Cross Sectional Bed Area | 12.5 FT ² |
| Shipping / Operational Weight (lbs) | 2,925/6,400 | Bed Depth/Volume | 5.5 FT / 68.7 FT ³ |

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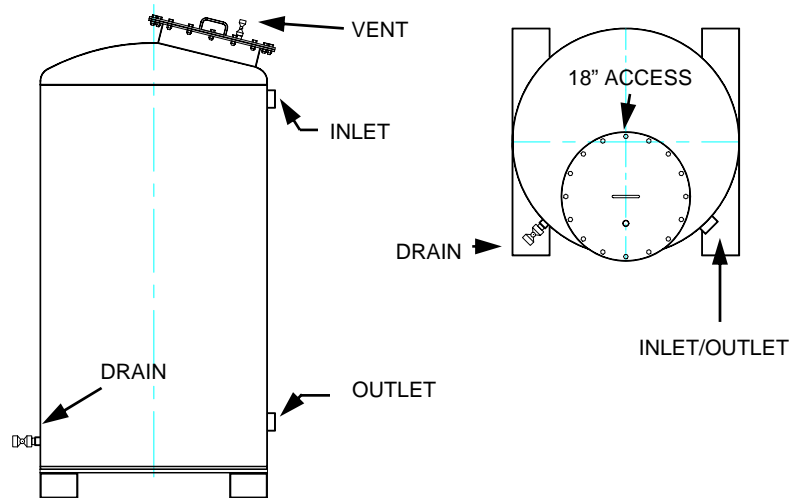
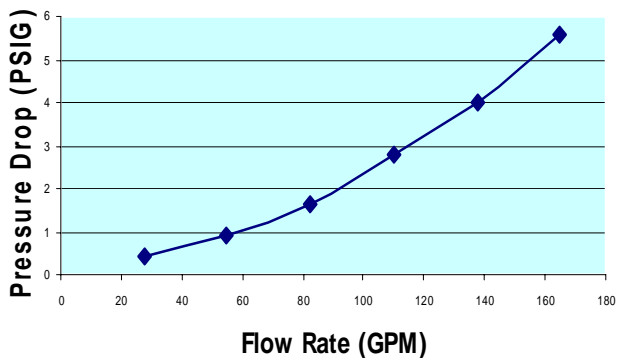
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-3000

The WS-3000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-3000 SPECIFICATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|------------------------------|
| Overall Height | 7'10" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 60" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1" / 1/2" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 3000 | Cross Sectional Bed Area | 19.5 FT ² |
| Shipping / Operational Weight (lbs) | 4,375/9,875 | Bed Depth/Volume | 5.5 FT / 107 FT ³ |

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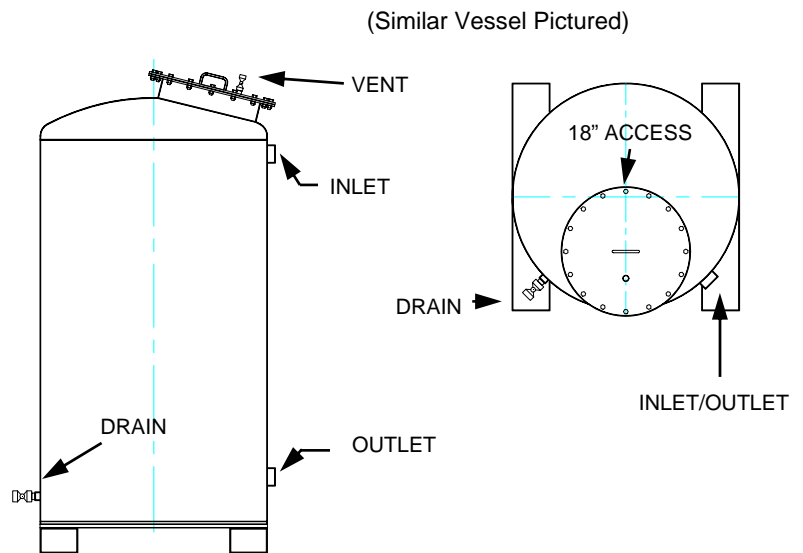
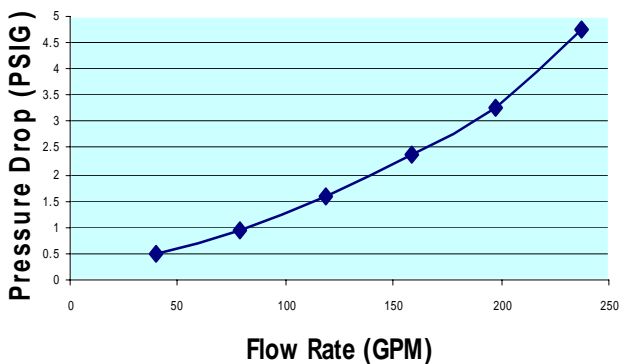
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-5000

The WS-5000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WS-5000 SPECIFICATIONS

| | | | |
|-------------------------------------|---------------|----------------------------------|----------------------------|
| Overall Height | 9'0" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 72" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1 1/2" / 3/4" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 5000 | Cross Sectional Bed Area | 28 FT ² |
| Shipping / Operational Weight (lbs) | 7,300/16,550 | Bed Depth/Volume | 6 FT / 168 FT ³ |

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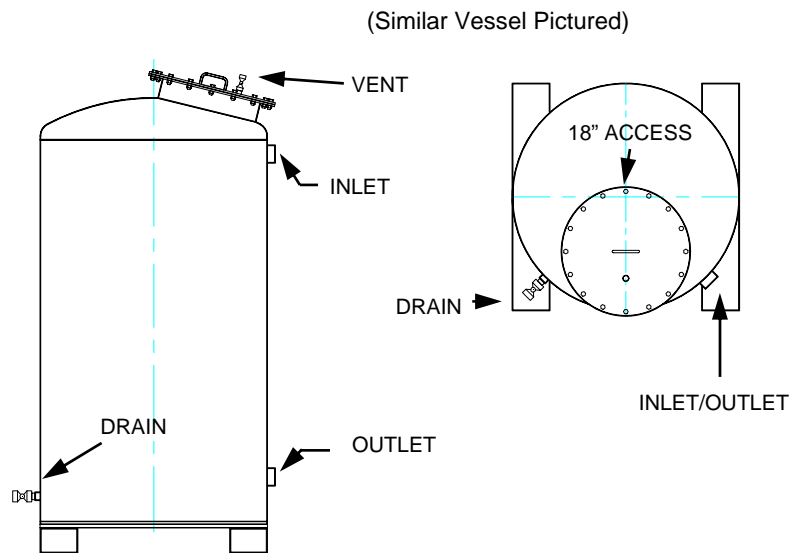
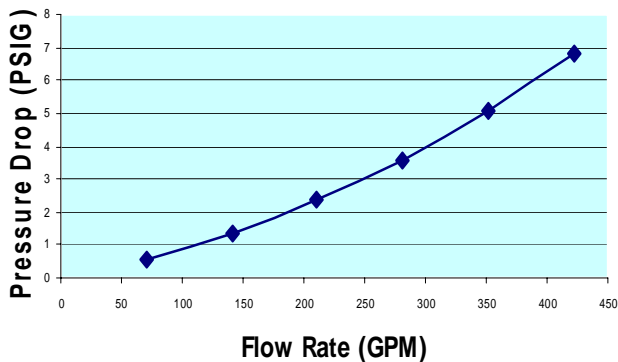
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL WS-10000

The WS-10000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| WS-10000 SPECIFICATIONS | | | |
|-------------------------------------|---------------|----------------------------------|----------------------------|
| Overall Height | 9'4" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 96" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 2" / 1" | Maximum Pressure / Temp | 40 PSIG / 140° F |
| GAC Fill (lbs) | 10000 | Cross Sectional Bed Area | 50 FT ² |
| Shipping / Operational Weight (lbs) | 13,150/29,050 | Bed Depth/Volume | 7 FT / 350 FT ³ |

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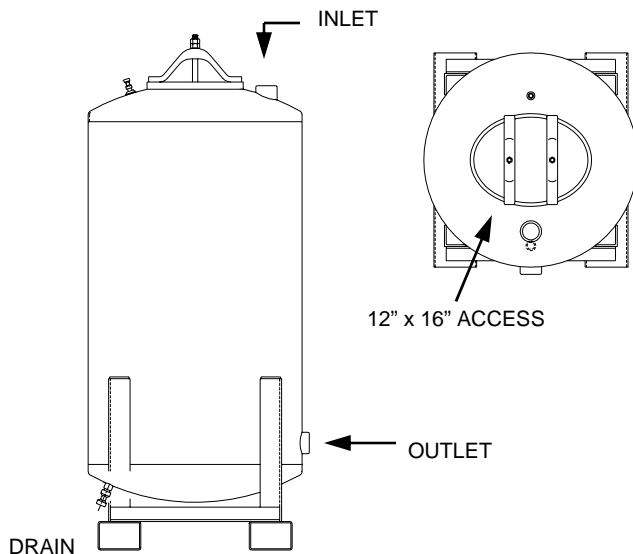
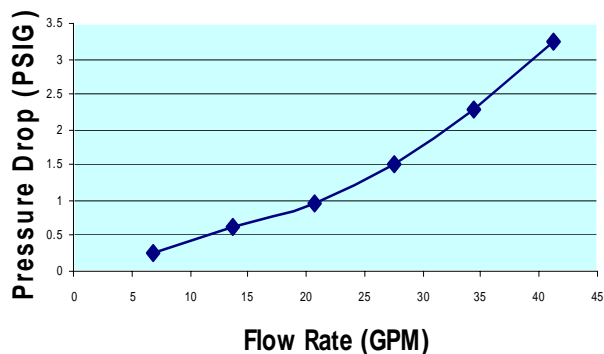
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL HPWS-500

The HPWS-500 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 9*30)



| HPWS-500 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-------------------------------|
| Overall Height | 5'11" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1/2" / 1/4" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 500 | Cross Sectional Bed Area | 4.9 FT ² |
| Shipping / Operational Weight (lbs) | 850/1,770 | Bed Depth/Volume | 3.4 FT / 16.7 FT ³ |

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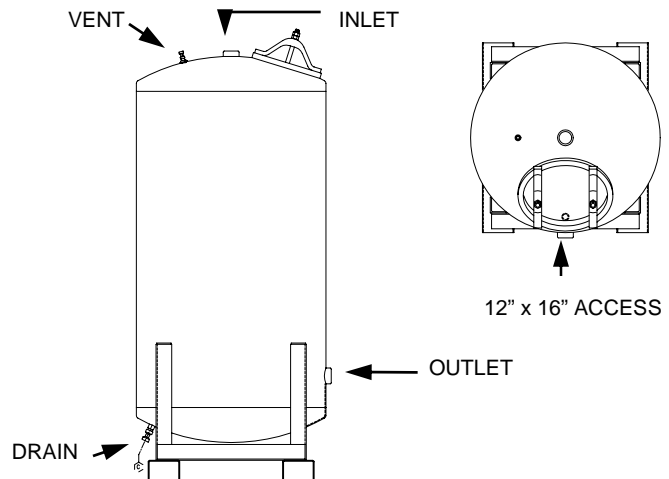
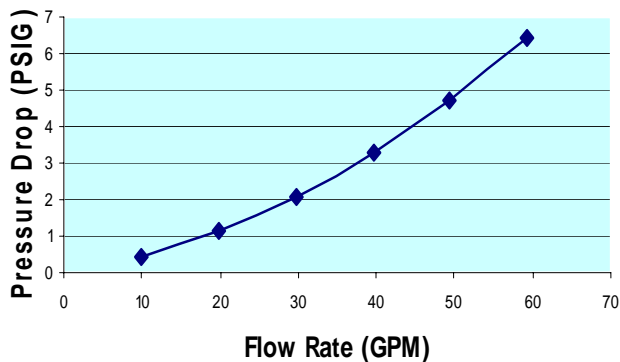
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PRODUCT DATA SHEET WS SERIES FILTERS MODEL HPWS-1000

The HPWS-1000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| HPWS-1000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|---------------------------|
| Overall Height | 7'2" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 36" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1/2" / 1/4" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 1,000 | Cross Sectional Bed Area | 7 FT ² |
| Shipping / Operational Weight (lbs) | 1,535/3,295 | Bed Depth/Volume | 5 FT / 33 FT ³ |

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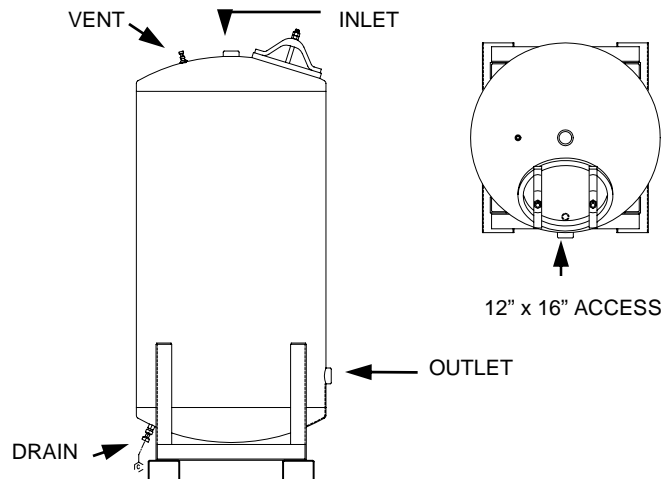
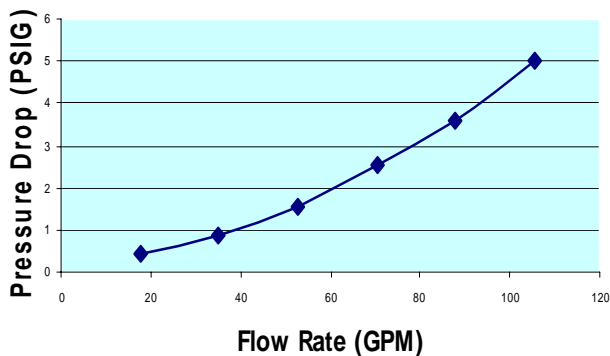
MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET WS SERIES FILTERS MODEL HPWS-2000

The HPWS-2000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| HPWS-2000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-------------------------------|
| Overall Height | 8'6" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 48" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 3/4" / 1/2" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 2,000 | Cross Sectional Bed Area | 12.5 FT ² |
| Shipping / Operational Weight (lbs) | 3,020/6,775 | Bed Depth/Volume | 5.5 FT / 68.7 FT ³ |

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PRODUCT DATA SHEET

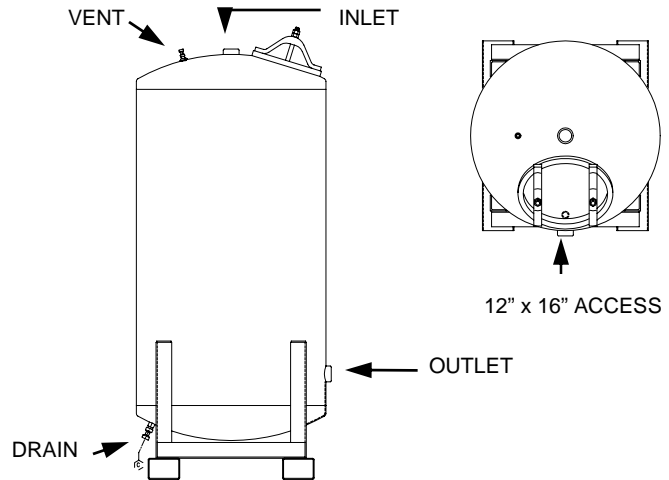
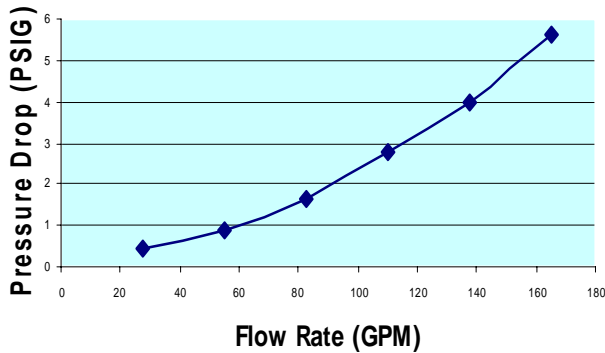
WS SERIES FILTERS

MODEL HPWS-3000

The HPWS-3000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| HPWS-3000 SPECIFICATIONS | | | |
|-------------------------------------|--------------|----------------------------------|------------------------------|
| Overall Height | 8'11" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 60" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1" / 1/2" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 3,000 | Cross Sectional Bed Area | 19.5 FT ² |
| Shipping / Operational Weight (lbs) | 3,525/10,635 | Bed Depth/Volume | 5.5 FT / 107 FT ³ |

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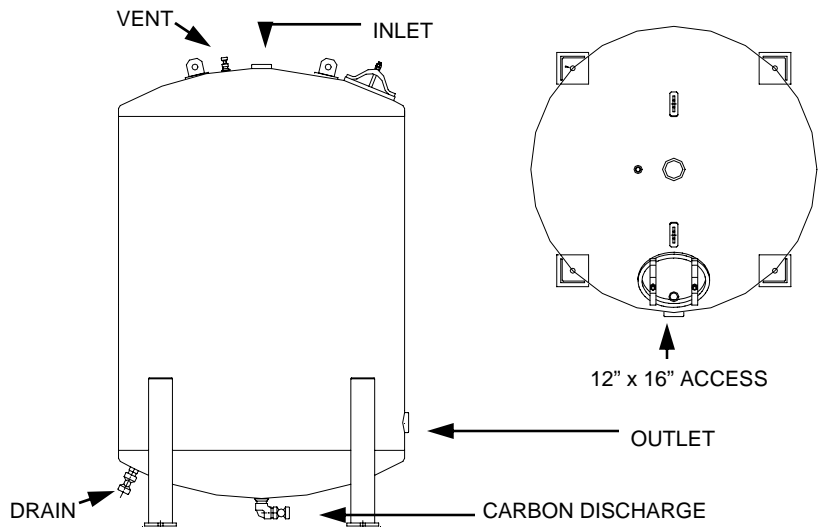
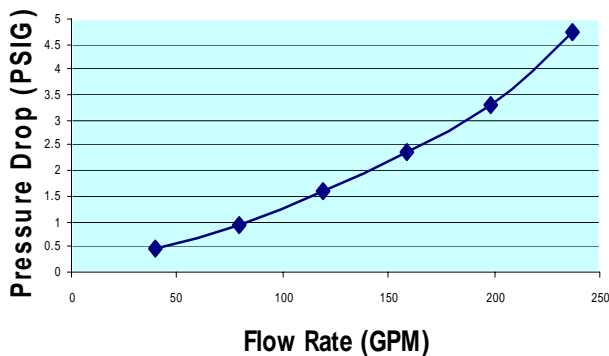
WS SERIES FILTERS

MODEL HPWS-5000

The HPWS-5000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



HPWS-5000 SPECIFICATIONS

| | | | |
|-------------------------------------|---------------|----------------------------------|----------------------------|
| Overall Height | 9'11" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 72" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 1 1/2" / 3/4" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 5,000 | Cross Sectional Bed Area | 28 FT ² |
| Shipping / Operational Weight (lbs) | 7,490/17,860 | Bed Depth/Volume | 6 FT / 168 FT ³ |

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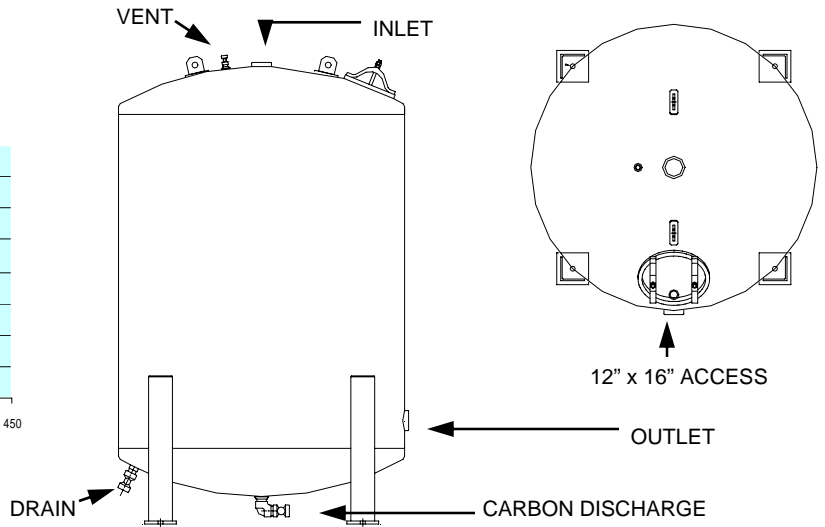
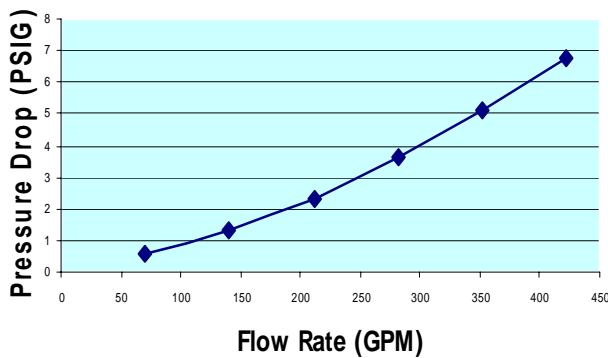
MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET WS SERIES FILTERS MODEL HPWS-10000

The HPWS-10000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



HPWS-10000 SPECIFICATIONS

| | | | |
|-------------------------------------|---------------|----------------------------------|----------------------------|
| Overall Height | 10'9" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 96" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" FLNG | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 2" / 1" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 10,000 | Cross Sectional Bed Area | 50 FT ² |
| Shipping / Operational Weight (lbs) | 13,800/31,115 | Bed Depth/Volume | 7 FT / 350 FT ³ |

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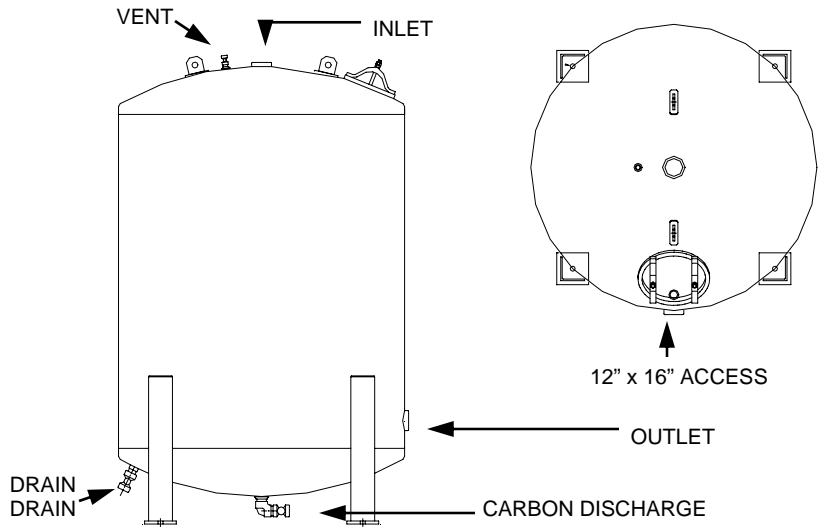
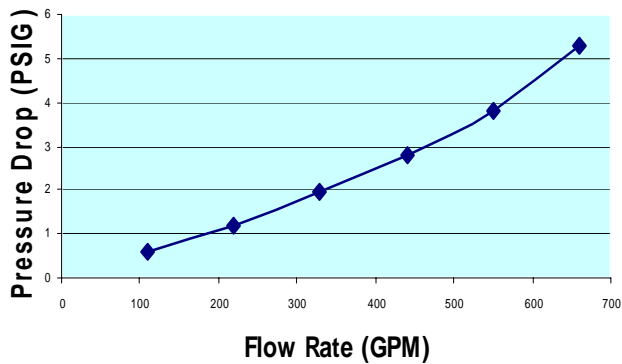
MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET WS SERIES FILTERS MODEL HPWS-20000

The HPWS-20000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| HPWS-20000 SPECIFICATIONS | | | |
|-------------------------------------|---------------|----------------------------------|----------------------------|
| Overall Height | 15'10" | Vessel/Internal Piping Materials | CS (SA-36) / SCH 40 PVC |
| Diameter | 120" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 8" FLNG | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 2" / 1" | Maximum Pressure / Temp | 75 PSIG / 140° F |
| GAC Fill (lbs) | 20,000 | Cross Sectional Bed Area | 78 FT ² |
| Shipping / Operational Weight (lbs) | 27,250/68,320 | Bed Depth/Volume | 7 FT / 350 FT ³ |

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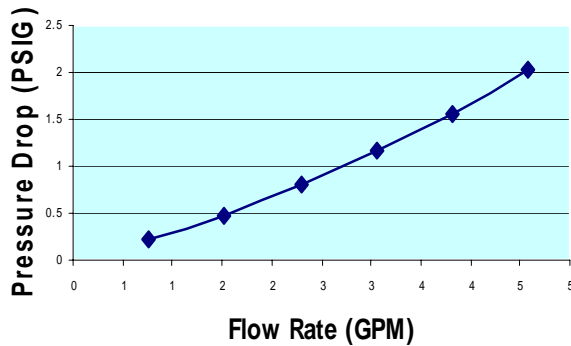
WS SERIES FILTERS

MODEL WSHP-50

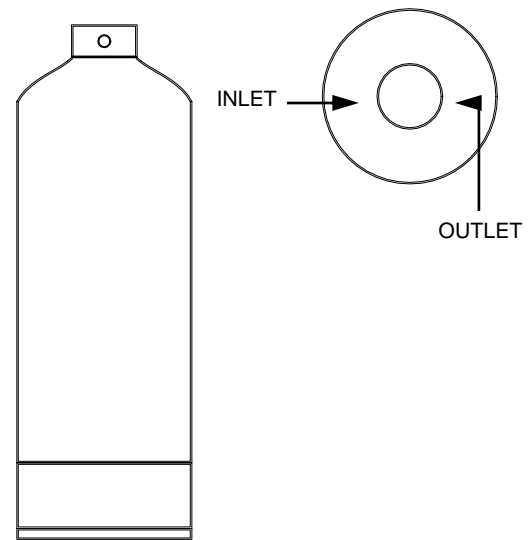
The WSHP-50 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled 8*30 GAC)



(Similar Vessel Pictured)



| WSHP-50 SPECIFICATIONS | | | |
|-------------------------------------|--------|----------------------------------|------------------------------|
| Overall Height | 3'11" | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 10" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3/4" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | NA | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 50 | Cross Sectional Bed Area | 0.5 FT ² |
| Shipping / Operational Weight (lbs) | 60/155 | Bed Depth/Volume | 3.1 FT / 1.7 FT ³ |

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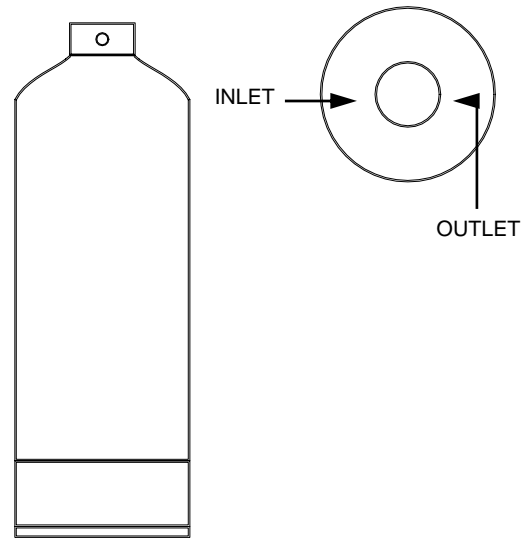
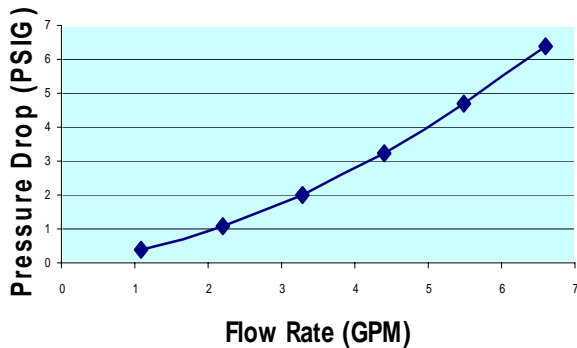
WS SERIES FILTERS

MODEL WSHP-100

The WSHP-100 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WSHP-100 SPECIFICATIONS

| | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 4'7" | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 12" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3/4" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | NA | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 100 | Cross Sectional Bed Area | 0.7 FT ² |
| Shipping / Operational Weight (lbs) | 130/245 | Bed Depth/Volume | 4.7 FT / 3.3 FT ³ |

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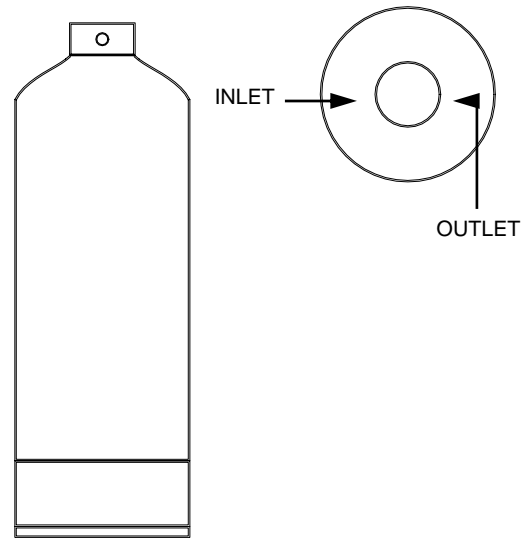
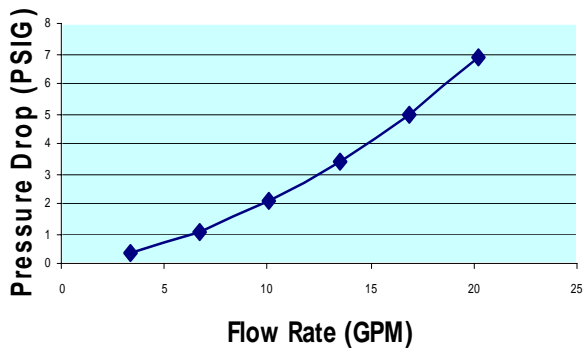
WS SERIES FILTERS

MODEL WSHP-200

The WSHP-200 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbent unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(AS Filled - 8*30 GAC)



WSHP-200 SPECIFICATIONS

| | | | |
|-------------------------------------|---------|----------------------------------|----------------------------|
| Overall Height | 4' | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 22" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 1" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | NA | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 200 | Cross Sectional Bed Area | 1.3 FT ² |
| Shipping / Operational Weight (lbs) | 235/520 | Bed Depth/Volume | 5 FT / 6.5 FT ³ |

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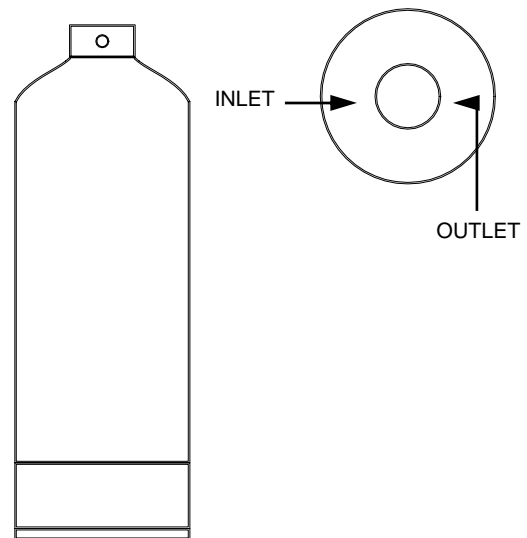
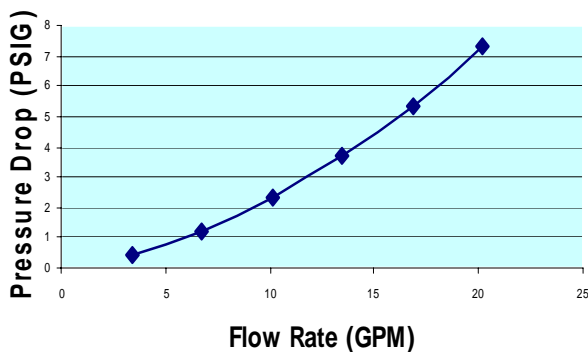
WS SERIES FILTERS

MODEL WSHP-300

The WSHP-300 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



WSHP-300 SPECIFICATIONS

| | | | |
|-------------------------------------|---------|----------------------------------|-----------------------------|
| Overall Height | 6' | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 21" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 1" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | NA | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 300 | Cross Sectional Bed Area | 2.3 FT ² |
| Shipping / Operational Weight (lbs) | 380/905 | Bed Depth/Volume | 4.3 FT / 10 FT ³ |

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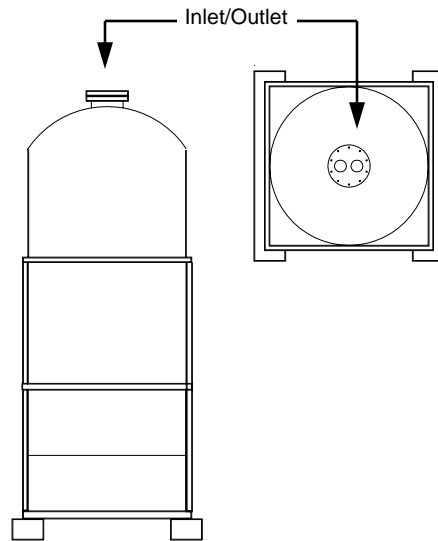
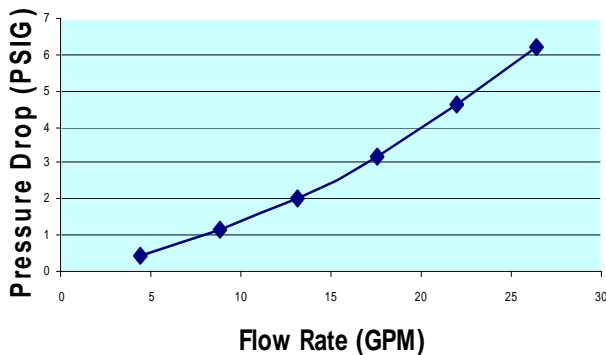
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RODUCT DATA SHEET WS SERIES FILTERS MODEL WSHP-500

The WSHP-500 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled - 8*30 GAC)



| WSHP-500 SPECIFICATIONS | | | |
|-------------------------------------|----------|----------------------------------|-----------------------------|
| Overall Height | 7'2" | Vessel/Internal Piping Materials | Polyethethylene/SCH40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Polyethethylene |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 500 | Cross Sectional Bed Area | 4.7 FT ² |
| Shipping / Operational Weight (lbs) | 650/2065 | Bed Depth/Volume | 3.5 FT / 17 FT ³ |

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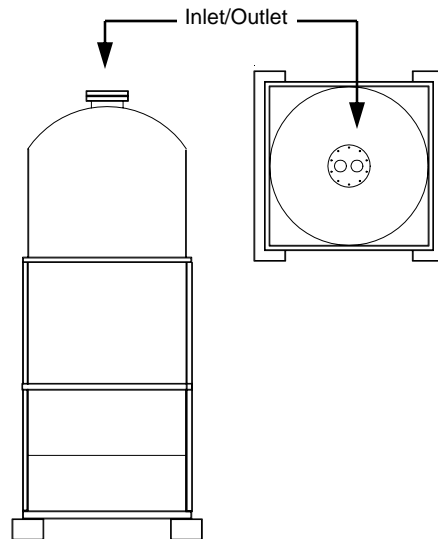
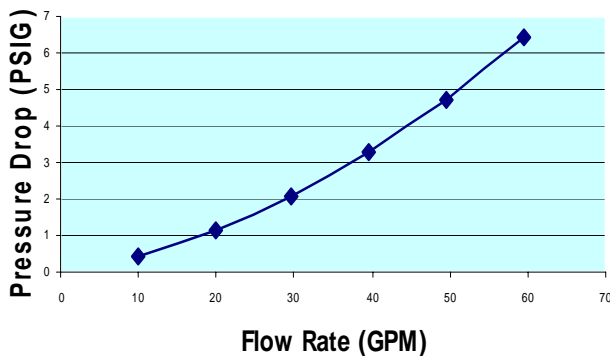
WS SERIES FILTERS

MODEL WSHP-1000

The WSHP-1000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP GRAPH
(As Filled 8*30 GAC)



WSHP-1000 SPECIFICATIONS

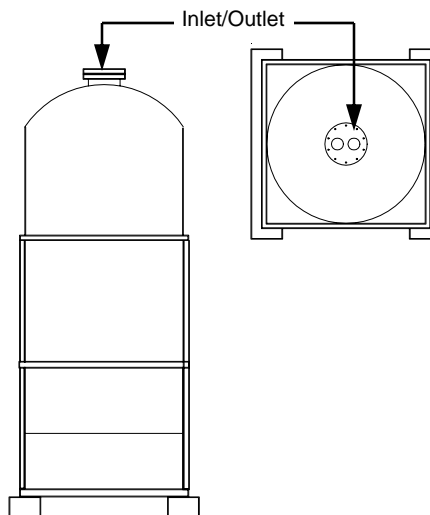
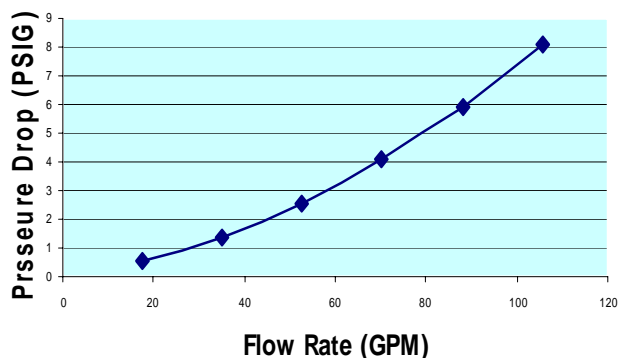
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|-------------------------------------|-------------|----------------------------------|---------------------------|
| Overall Height | 7'5" | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 36" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 1000 | Cross Sectional Bed Area | 6.7 FT ² |
| Shipping / Operational Weight (lbs) | 1,225/3,020 | Bed Depth/Volume | 5 FT / 33 FT ³ |

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The WSHP-2000 filter is a media filter vessel designed to treat liquid streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. Some applications include:

- Dissolved Organic Removal (Activated Carbon)
- Suspended Solids Removal (Sand Filter)
- Dissolved Minerals (Softener Resin)
- Oil and Grease Removal (Organo-Clays)
- Dissolved and Precipitated Metals Removal
- Special Organics (Resin/Carbon Blend)
- Catalytic Reactor (Chlorine and Peroxide Removal)
- Bio-Remediation Contactor Unit

PRESSURE DROP CHART
*(As Filled - 8*30 GAC)*



| WSHP-2000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-----------------------------|
| Overall Height | 8'1" | Vessel/Internal Piping Materials | Polyethylene/SCH40 PVC |
| Diameter | 48" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Polyethylene |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 125 PSIG / 120° F |
| GAC Fill (lbs) | 2000 | Cross Sectional Bed Area | 12.2 FT ² |
| Shipping / Operational Weight (lbs) | 2,350/5,330 | Bed Depth/Volume | 5.5 FT / 66 FT ³ |

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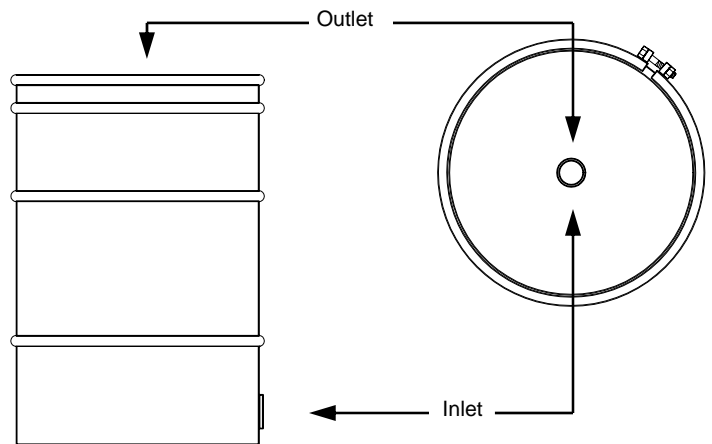
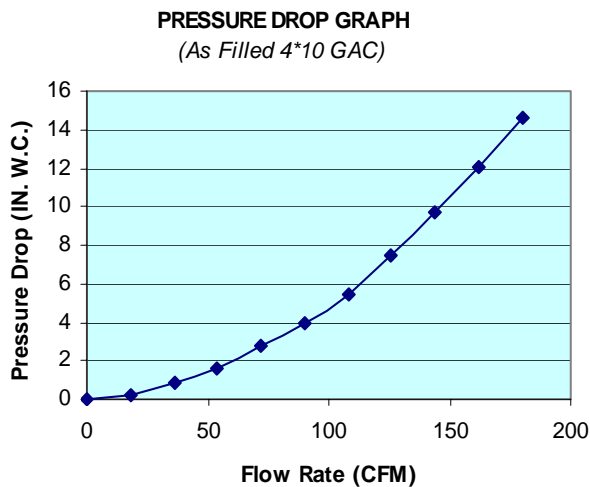
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VS-30

The VS-30 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VS-30 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 2'6" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Diameter | 18" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 4 PSIG / 250° F |
| GAC Fill (lbs) | 100 | Cross Sectional Bed Area | 1.8 FT ² |
| Shipping / Operational Weight (lbs) | 135/160 | Bed Depth/Volume | 1.8 FT / 3.3 FT ³ |

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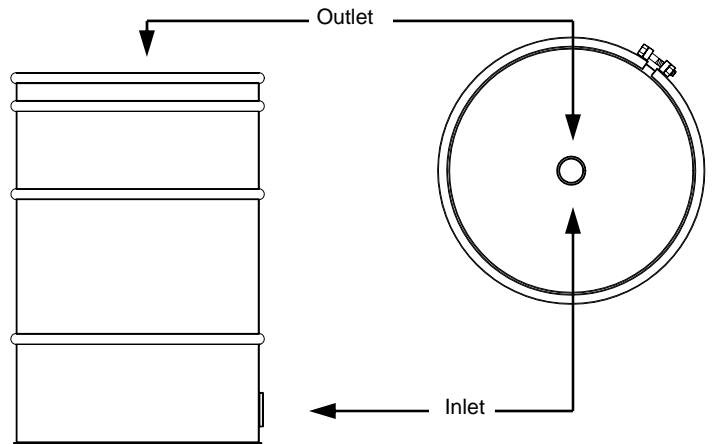
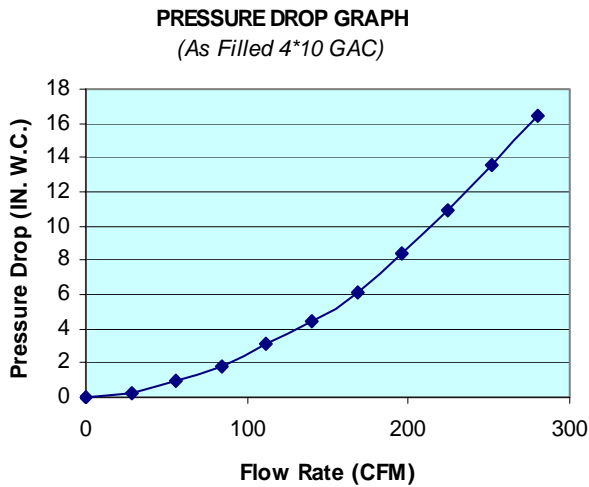
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VS-55

The VS-55 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VS-55 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 2'10" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Diameter | 23" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 4 PSIG / 250° F |
| GAC Fill (lbs) | 175 | Cross Sectional Bed Area | 2.8 FT ² |
| Shipping / Operational Weight (lbs) | 225/300 | Bed Depth/Volume | 2.2 FT / 6.3 FT ³ |

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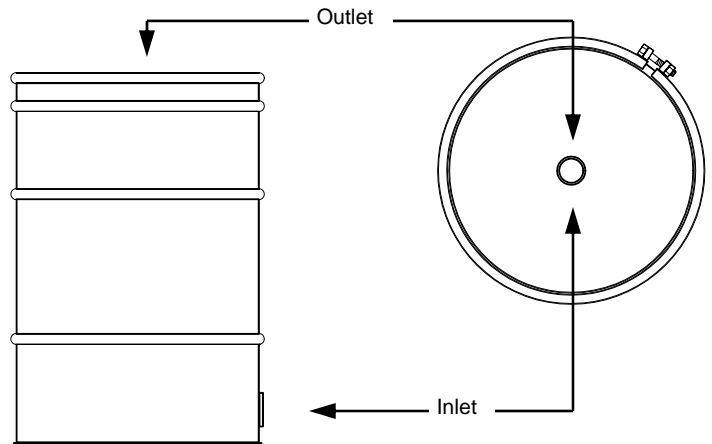
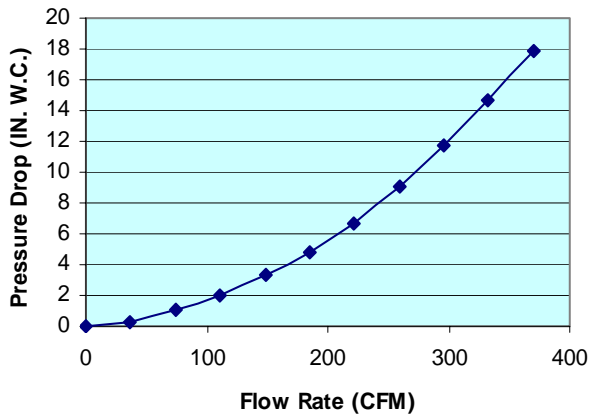
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PRODUCT DATA SHEET VS SERIES FILTERS MODEL VS-85

The VS-85 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



| VS-85 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 3'3" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Diameter | 28" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 4 PSIG / 250° F |
| GAC Fill (lbs) | 250 | Cross Sectional Bed Area | 3.7 FT ² |
| Shipping / Operational Weight (lbs) | 325/455 | Bed Depth/Volume | 2.4 FT / 8.9 FT ³ |

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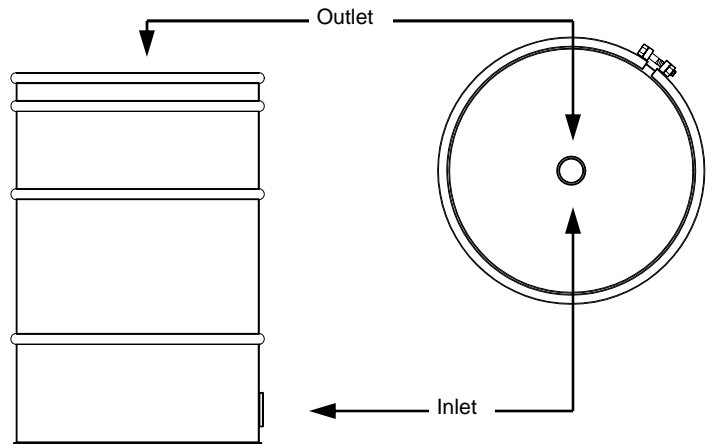
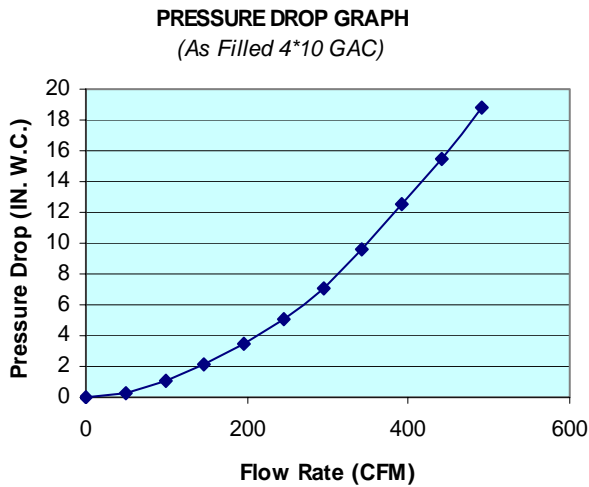
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VS-110

The VS-110 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VS-110 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|-------------------------------|
| Overall Height | 3'7" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Diameter | 32" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 4 PSIG / 250° F |
| GAC Fill (lbs) | 350 | Cross Sectional Bed Area | 4.9 FT ² |
| Shipping / Operational Weight (lbs) | 450/600 | Bed Depth/Volume | 2.6 FT / 12.5 FT ³ |

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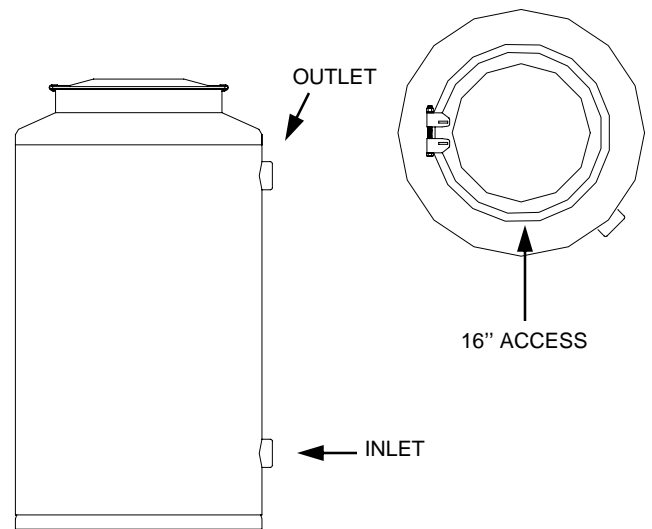
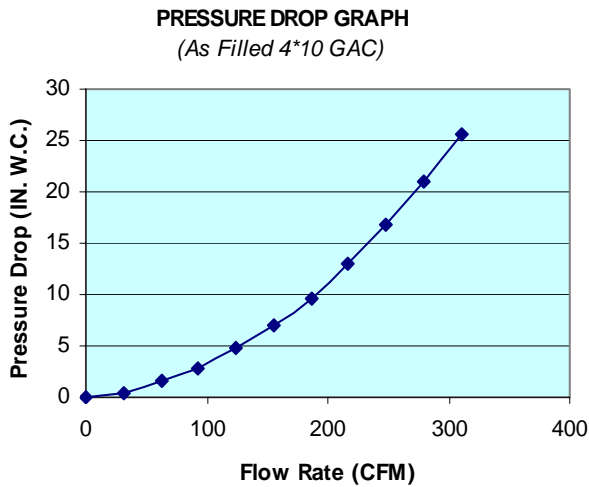
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VSV-250

The VSV-250 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-250 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|------------------------------|
| Overall Height | 3'11" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 24" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 10 PSIG / 140° F |
| GAC Fill (lbs) | 250 | Cross Sectional Bed Area | 3.1 FT ² |
| Shipping / Operational Weight (lbs) | 415/475 | Bed Depth/Volume | 2.9 FT / 8.9 FT ³ |

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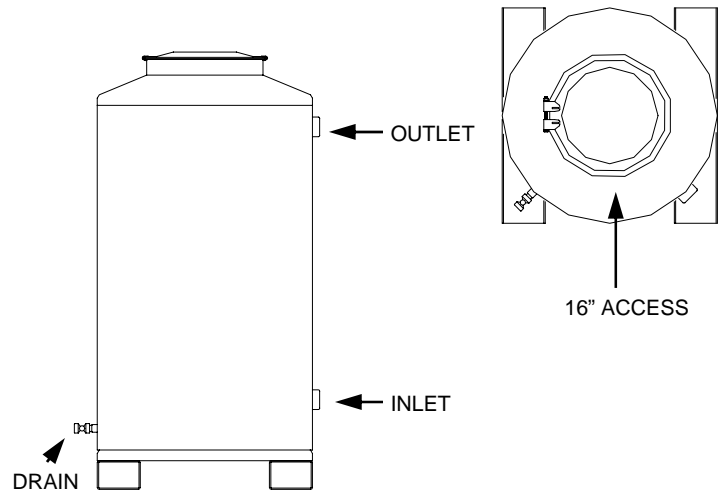
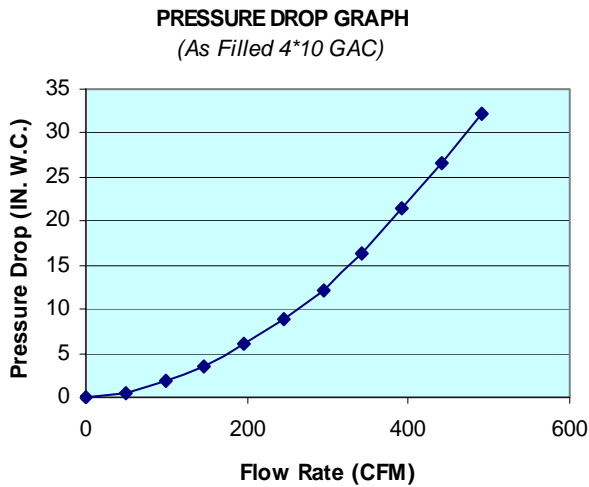
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VSV-500

The VSV-500 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-500 SPECIFICATIONS | | | |
|-------------------------------------|-----------|----------------------------------|-------------------------------|
| Overall Height | 5'3" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 2" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 1/2" | Maximum Pressure / Temp | 10 PSIG / 140° F |
| GAC Fill (lbs) | 500 | Cross Sectional Bed Area | 4.9 FT ² |
| Shipping / Operational Weight (lbs) | 875/1,000 | Bed Depth/Volume | 3.6 FT / 17.9 FT ³ |

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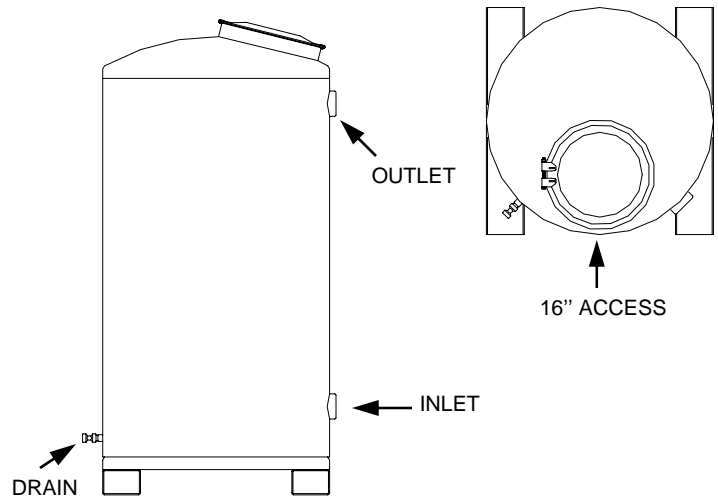
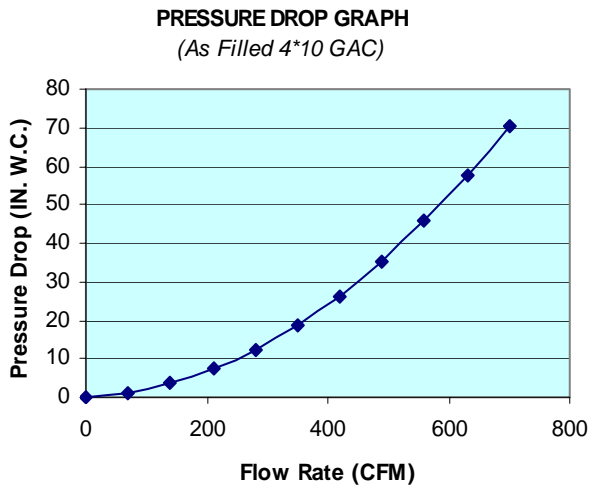


MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET VS SERIES FILTERS MODEL VSV-1000

The VSV-1000 filter is a media filter vessel designed to treat vapor streams. While the typical design application is a activated carbon adsorbtion unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-1000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|---------------------------|
| Overall Height | 6'5" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 36" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 3" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 1/2" | Maximum Pressure / Temp | 10 PSIG / 140° F |
| GAC Fill (lbs) | 1000 | Cross Sectional Bed Area | 7 FT ² |
| Shipping / Operational Weight (lbs) | 1,500/1,750 | Bed Depth/Volume | 5 FT / 35 FT ³ |

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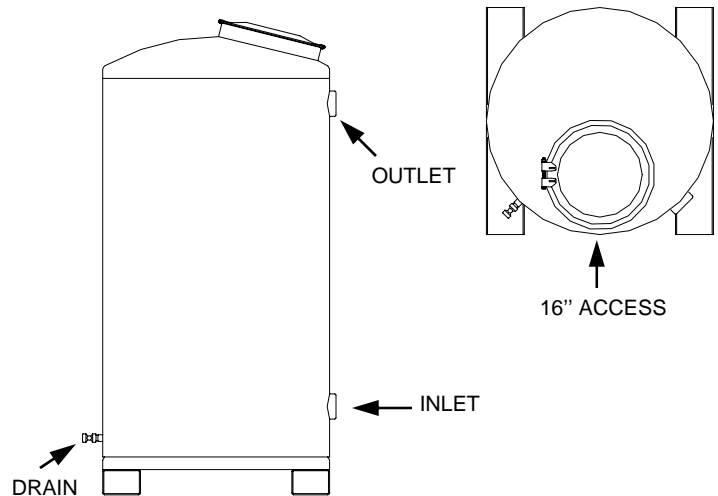
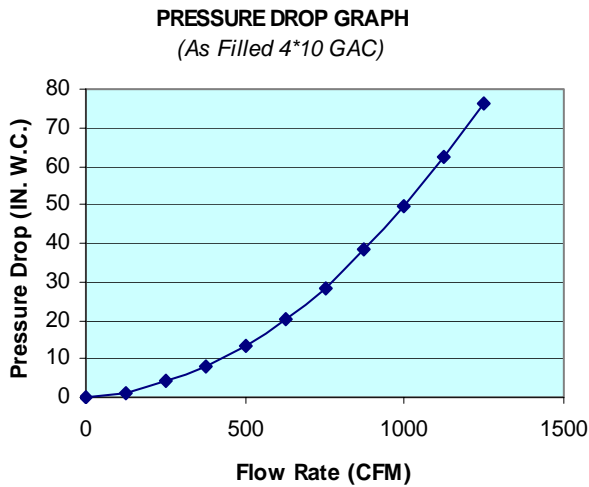


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PRODUCT DATA SHEET VS SERIES FILTERS MODEL VSV-2000

The VSV-2000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-2000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-----------------------------|
| Overall Height | 7'7" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 48" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 3/4" | Maximum Pressure / Temp | 10 PSIG / 140° F |
| GAC Fill (lbs) | 2000 | Cross Sectional Bed Area | 12.5 FT ² |
| Shipping / Operational Weight (lbs) | 2,925/3,425 | Bed Depth/Volume | 5.7 FT / 71 FT ³ |

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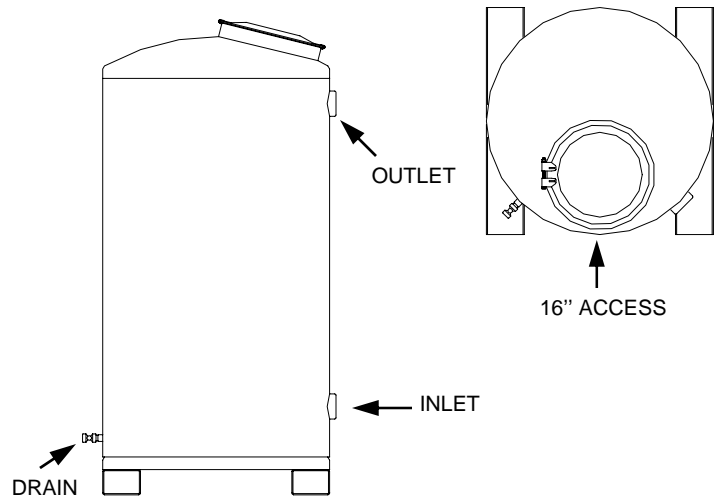
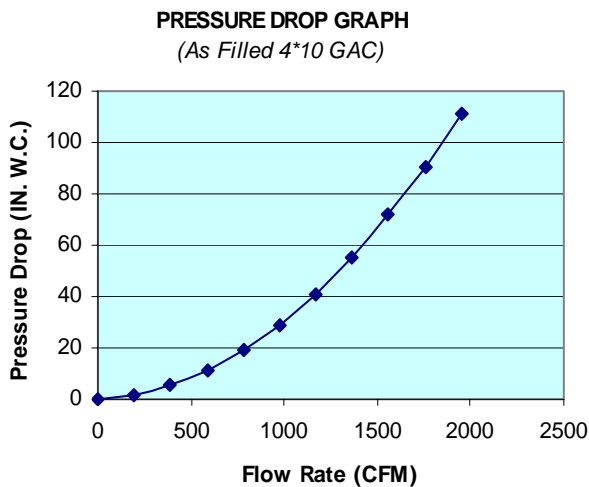
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VSV-3000

The VSV-3000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-3000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|------------------------------|
| Overall Height | 7'10" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 60" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 1" | Maximum Pressure / Temp | 10 PSIG / 140° F |
| GAC Fill (lbs) | 3000 | Cross Sectional Bed Area | 19.5 FT ² |
| Shipping / Operational Weight (lbs) | 4,375/5,125 | Bed Depth/Volume | 5.5 FT / 107 FT ³ |

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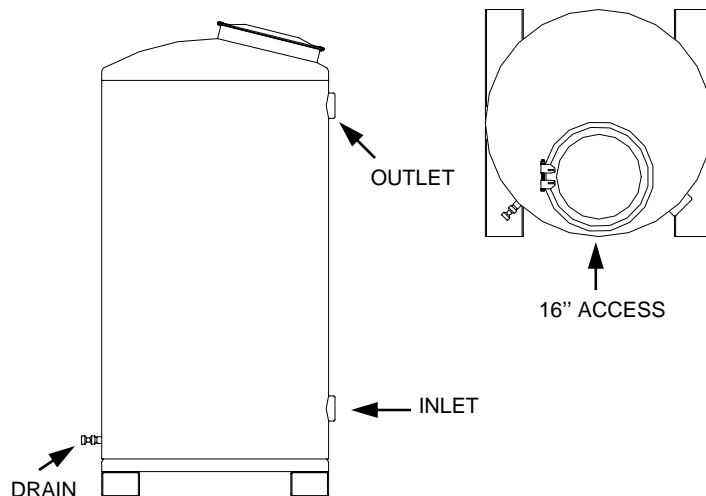
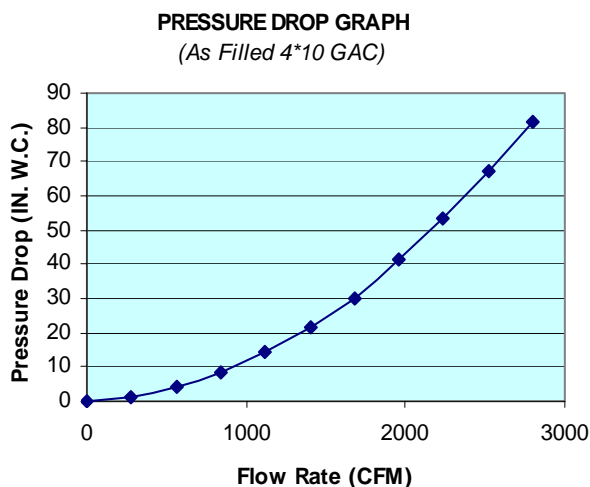
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VSV-5000

The VSV-5000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-5000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|------------------------------|
| Overall Height | 9'0" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 72" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 1 1/2" | Maximum Pressure / Temp | 8 PSIG / 140° F |
| GAC Fill (lbs) | 5000 | Cross Sectional Bed Area | 28 FT ² |
| Shipping / Operational Weight (lbs) | 7,300/8,500 | Bed Depth/Volume | 6.4 FT / 179 FT ³ |

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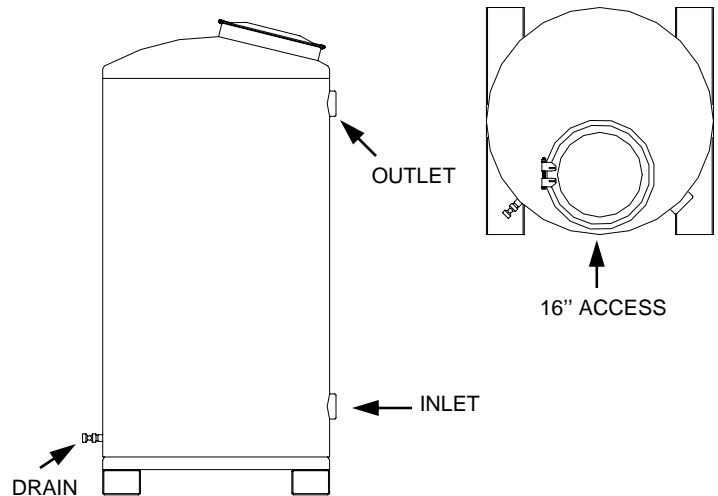
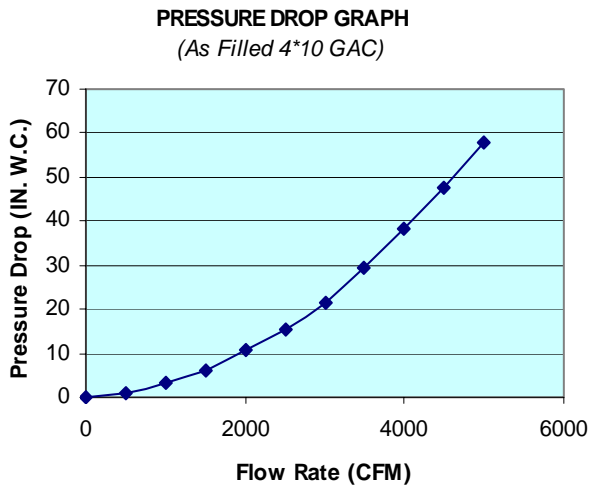


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PRODUCT DATA SHEET VS SERIES FILTERS MODEL VSV-10000

The VSV-10000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-10000 SPECIFICATIONS | | | |
|-------------------------------------|--------------|----------------------------------|------------------------------|
| Overall Height | 9'4" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 96" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | 2" | Maximum Pressure / Temp | 8 PSIG / 140° F |
| GAC Fill (lbs) | 10000 | Cross Sectional Bed Area | 50 FT ² |
| Shipping / Operational Weight (lbs) | 13,150/15,00 | Bed Depth/Volume | 7.1 FT / 357 FT ³ |

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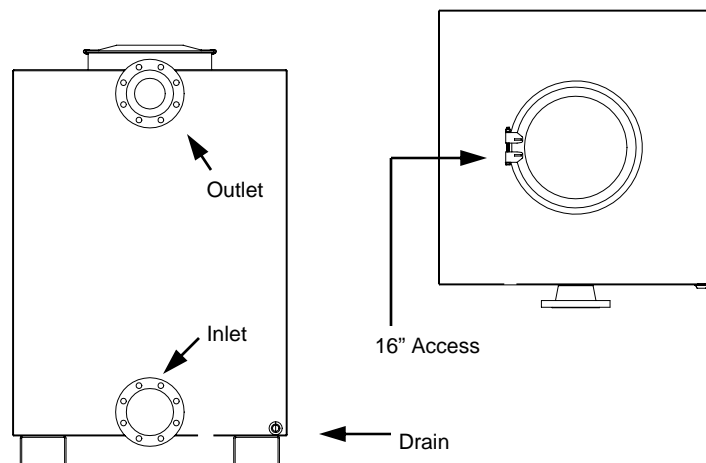
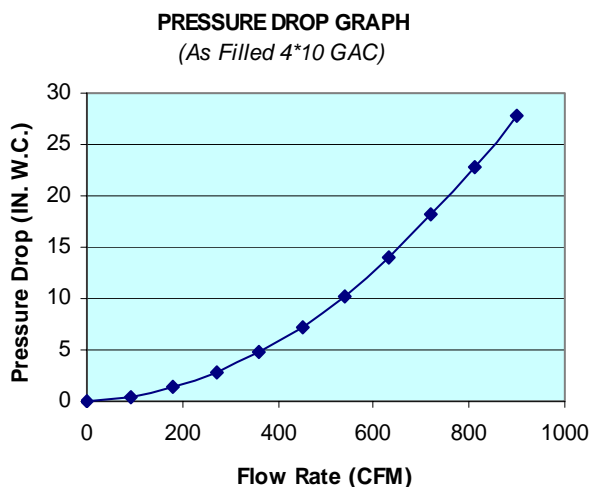
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VS-500

The VS-500 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-500 SPECIFICATIONS | | | |
|-------------------------------------|-----------|----------------------------------|---------------------------|
| Overall Height | 4'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 3' X 3' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 4" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 1/2" | Maximum Pressure / Temp | 3 PSIG / 250° F |
| GAC Fill (lbs) | 500 | Cross Sectional Bed Area | 9 FT ² |
| Shipping / Operational Weight (lbs) | 900/1,025 | Bed Depth/Volume | 2 FT / 18 FT ³ |

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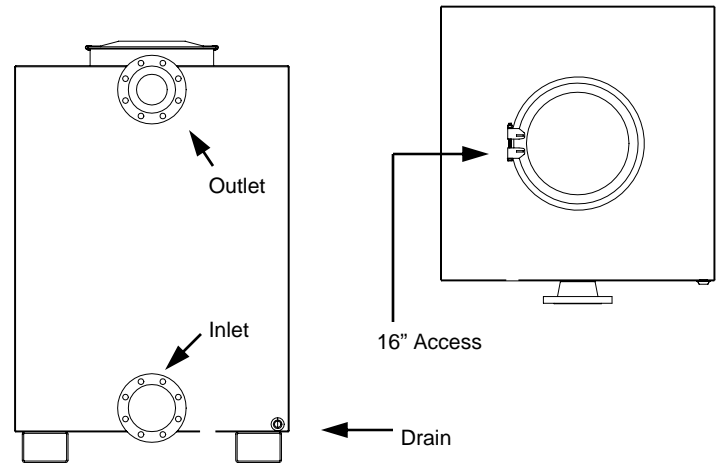
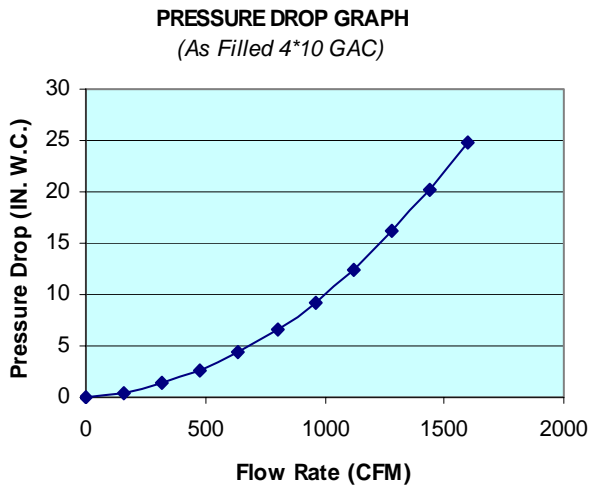
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VS SERIES FILTERS

MODEL VS-1000

The VS-1000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-1000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-----------------------------|
| Overall Height | 4'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 4' x 4' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 6" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 1/2" | Maximum Pressure / Temp | 3 PSIG / 250° F |
| GAC Fill (lbs) | 1000 | Cross Sectional Bed Area | 16 FT ² |
| Shipping / Operational Weight (lbs) | 1,450/1,600 | Bed Depth/Volume | 2.2 FT / 36 FT ³ |

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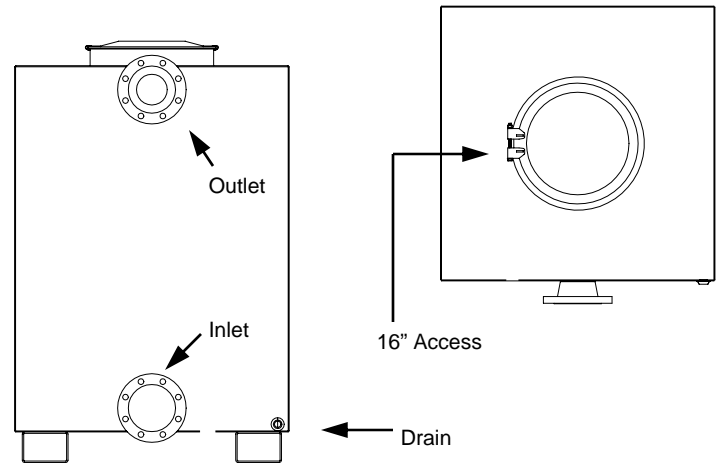
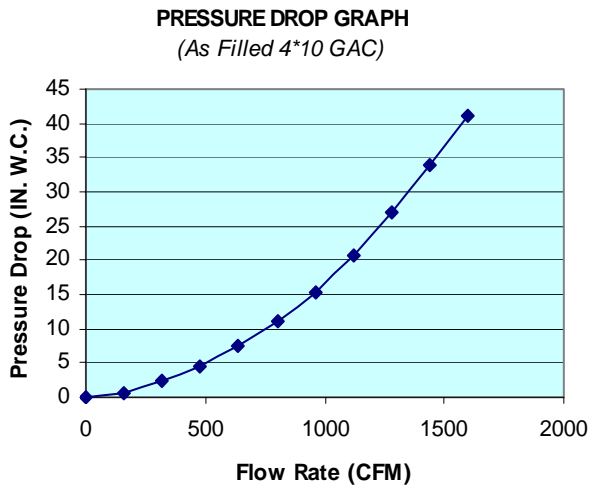
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VS SERIES FILTERS

MODEL VS-2000

The VS-2000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-2000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|-----------------------------|
| Overall Height | 6'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 4' x 4' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 6" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 1/2" | Maximum Pressure / Temp | 3 PSIG / 250° F |
| GAC Fill (lbs) | 2000 | Cross Sectional Bed Area | 16 FT ² |
| Shipping / Operational Weight (lbs) | 2,650/3,200 | Bed Depth/Volume | 4.5 FT / 71 FT ³ |

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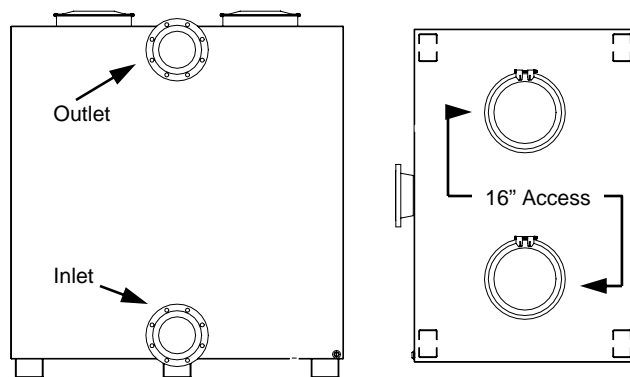
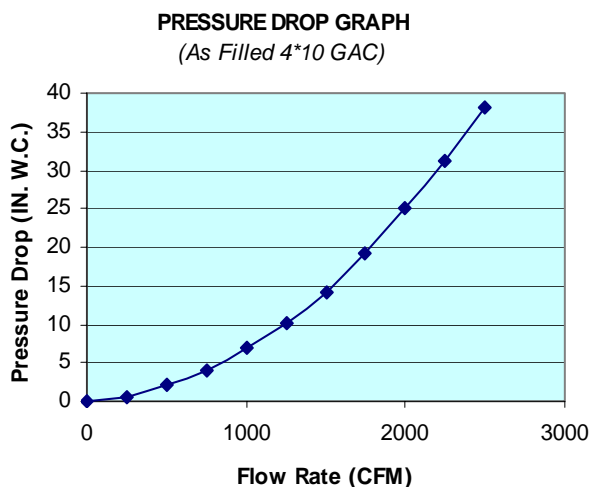
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VS SERIES FILTERS

MODEL VS-3000

The VS-3000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-3000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|------------------------------|
| Overall Height | 6'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 5' x 5' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 8" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 3/4" | Maximum Pressure / Temp | 3 PSIG / 250° F |
| GAC Fill (lbs) | 3000 | Cross Sectional Bed Area | 25 FT ² |
| Shipping / Operational Weight (lbs) | 4,500/5,150 | Bed Depth/Volume | 4.3 FT / 107 FT ³ |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

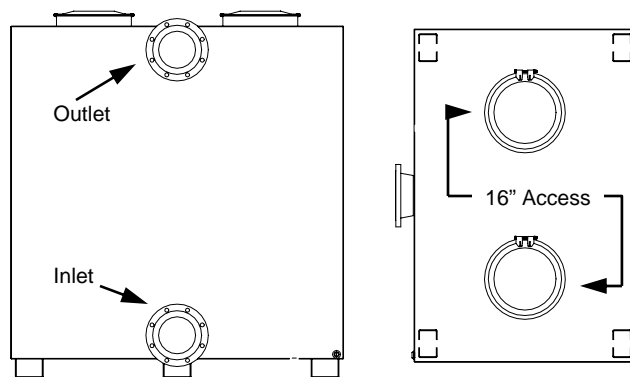
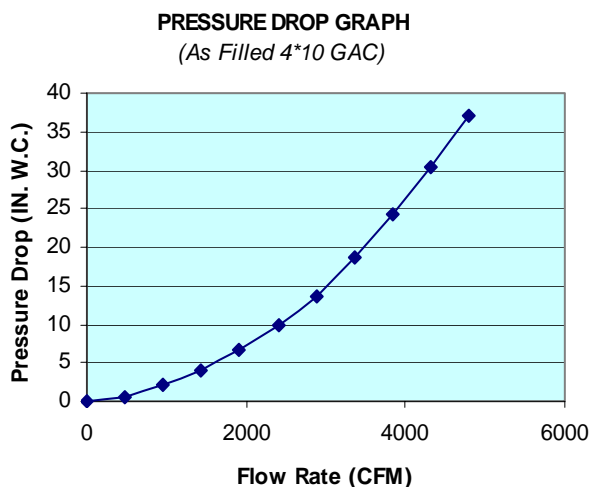
PRODUCT DATA SHEET

VS SERIES FILTERS

MODEL VS-5000

The VS-5000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment



| VSV-5000 SPECIFICATIONS | | | |
|-------------------------------------|-------------|----------------------------------|------------------------------|
| Overall Height | 6'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 6' x 8' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 10" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 3/4" | Maximum Pressure / Temp | 2 PSIG / 250° F |
| GAC Fill (lbs) | 5000 | Cross Sectional Bed Area | 48 FT ² |
| Shipping / Operational Weight (lbs) | 7,100/8,200 | Bed Depth/Volume | 3.7 FT / 179 FT ³ |

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PRODUCT DATA SHEET

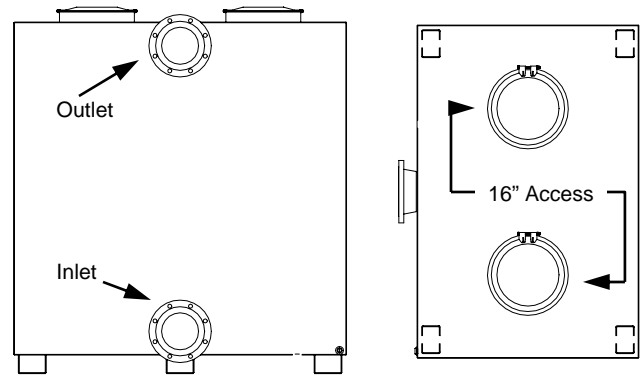
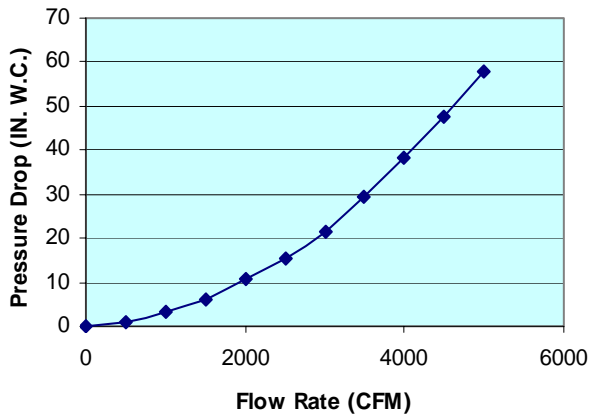
VS SERIES FILTERS

MODEL VS-10000

The VS-10000 filter is a media filter vessel designed to treat vapor streams where pressure drop is a strong concern. While the typical design application is a activated carbon adsorption unit, the filter can easily accommodate many medias. The sturdy construction makes these filter vessels ideal for long term treatment units. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Pilot Study
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



| VSV-10000 SPECIFICATIONS | | | |
|-------------------------------------|---------------|----------------------------------|------------------------------|
| Overall Height | 7'8" | Vessel/Internal Piping Materials | CS/ CS (False Floor) |
| Footprint | 8' x 10' | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (150# FLNG) | 12" | External Coating | Epoxy Mastic (Light Grey) |
| Drain / Vent (FNPT) | 3/4" | Maximum Pressure / Temp | 1 PSIG / 250° F |
| GAC Fill (lbs) | 10000 | Cross Sectional Bed Area | 80 FT ² |
| Shipping / Operational Weight (lbs) | 14,500/17,000 | Bed Depth/Volume | 4.5 FT / 357 FT ³ |

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PRODUCT DATA SHEET

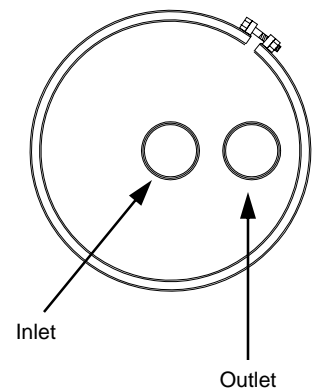
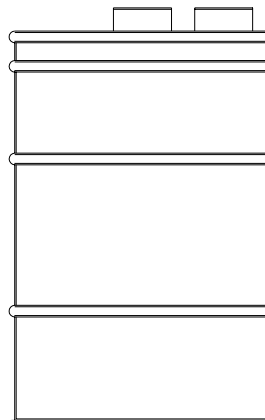
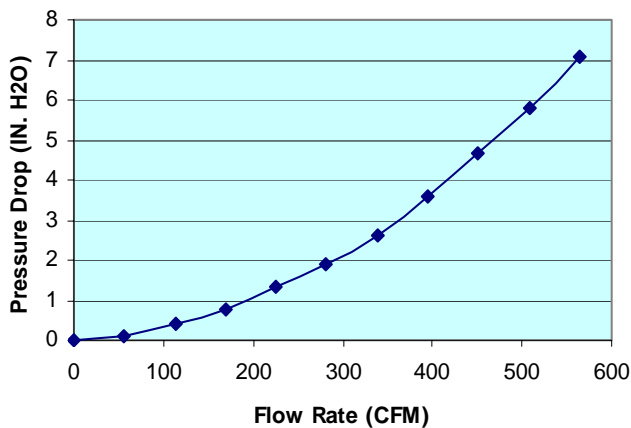
VS SERIES FILTERS

MODEL VSR-140

The VSR-140 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



VSR-140 SPECIFICATIONS

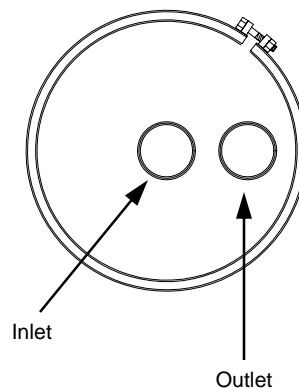
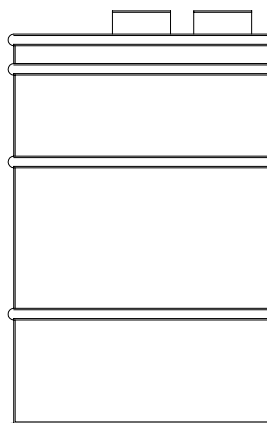
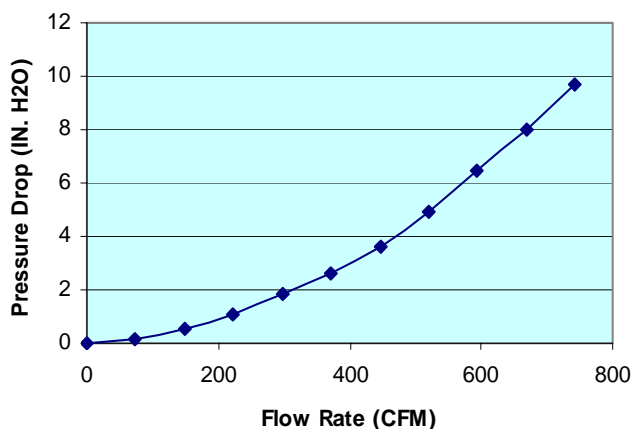
| | | | |
|-------------------------------------|---------|----------------------------------|-----------------------------|
| Overall Height | 3'2" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 23" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" FNPT | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 140 | Cross Sectional Bed Area | 5.6 FT ² |
| Shipping / Operational Weight (lbs) | 200/225 | Bed Depth/Volume | 7.25 IN / 5 FT ³ |

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The VSR-170 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
*(As Filled 4*10 GAC)*



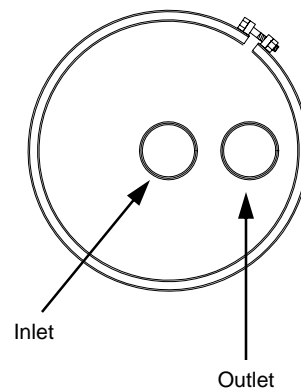
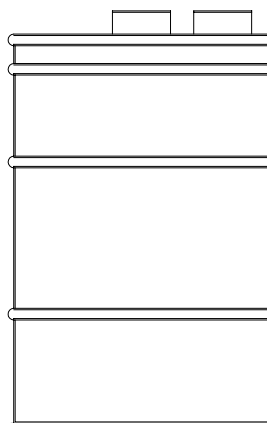
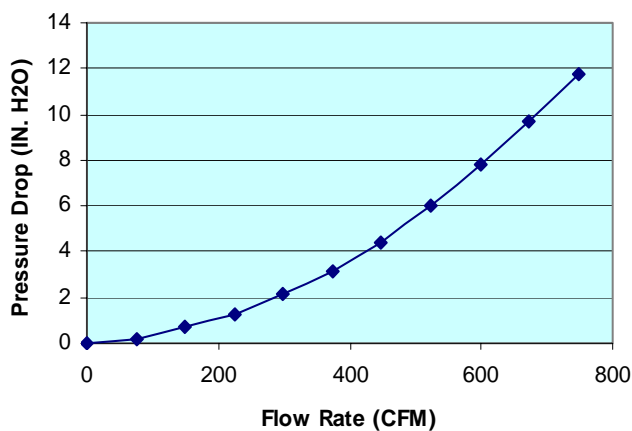
| VSR-170 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|-----------------------------|
| Overall Height | 3'2" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 23" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 4" FNPT | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 170 | Cross Sectional Bed Area | 6 FT ² |
| Shipping / Operational Weight (lbs) | 230/265 | Bed Depth/Volume | 8.25 IN / 6 FT ³ |

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The VSR-225 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
*(As Filled 4*10 GAC)*



| VSR-225 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|-----------------------------|
| Overall Height | 3'7" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 26" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" FNPT | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 225 | Cross Sectional Bed Area | 6 FT ² |
| Shipping / Operational Weight (lbs) | 300/350 | Bed Depth/Volume | 8.25 IN / 8 FT ³ |

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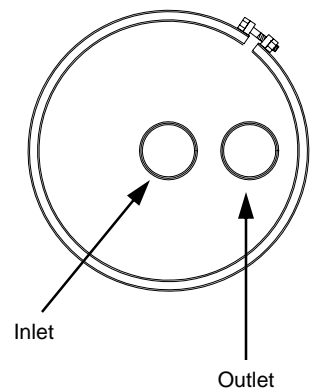
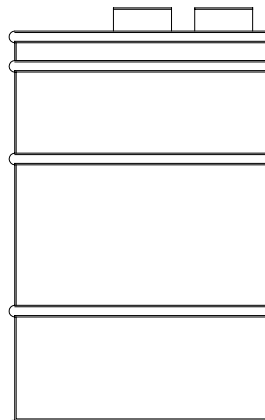
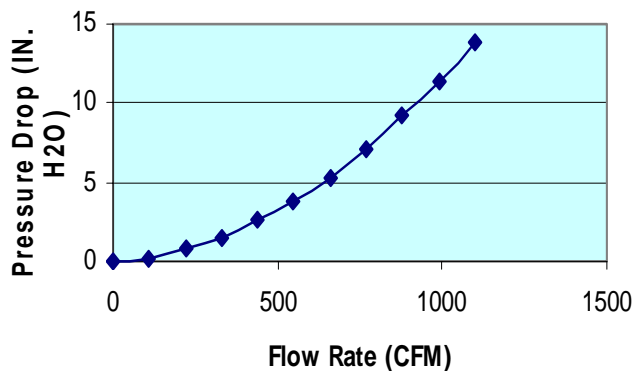
MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET VS SERIES FILTERS MODEL VSR-400

The VSR-400 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



| VSR-400 SPECIFICATIONS | | | |
|-------------------------------------|---------|----------------------------------|---------------------------------|
| Overall Height | 3'11" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 30" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 6" FNPT | External Coating | Urethane Enamel |
| Drain / Vent (FNPT) | OPT | Maximum Pressure / Temp | 2 PSIG / 150° F |
| GAC Fill (lbs) | 400 | Cross Sectional Bed Area | 8.8 FT ² |
| Shipping / Operational Weight (lbs) | 500/575 | Bed Depth/Volume | 11.7 IN / 14.25 FT ³ |

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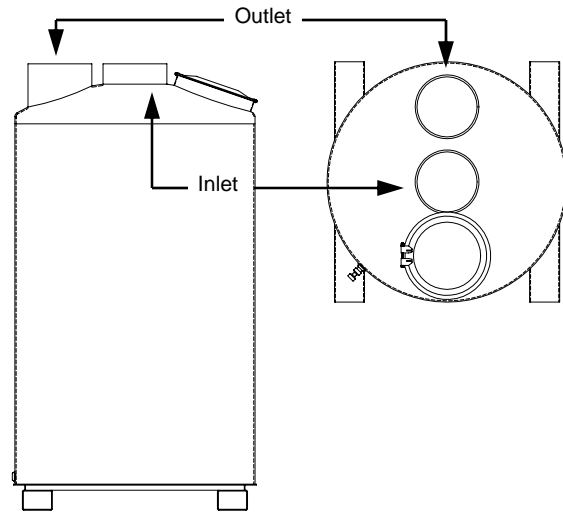
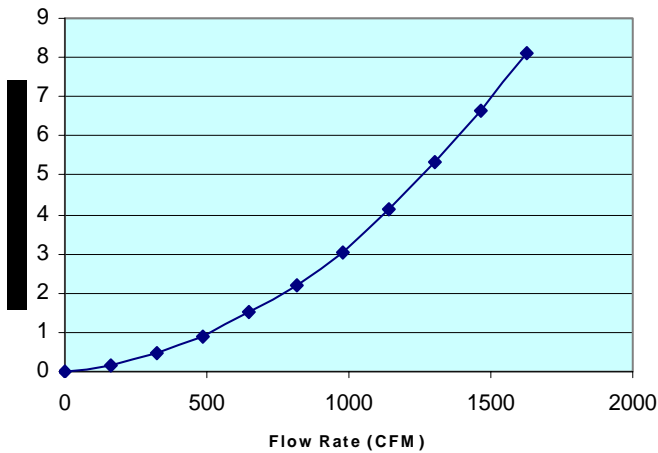
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PRODUCT DATA SHEET VS SERIES FILTERS MODEL VSR-700

The VSR-700 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



VSR-700 SPECIFICATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|----------------------------|
| Overall Height | 6'1" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 36" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 8" PE | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 3/4"/OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 700 | Cross Sectional Bed Area | 16 FT ² |
| Shipping / Operational Weight (lbs) | 1,300/1,425 | Bed Depth/Volume | 12 IN / 25 FT ³ |

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PRODUCT DATA SHEET

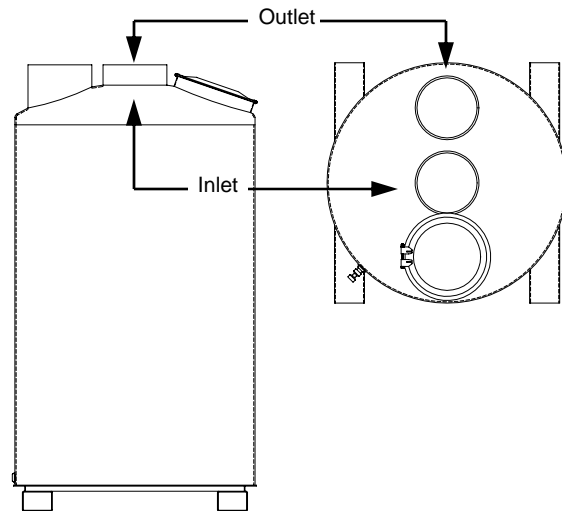
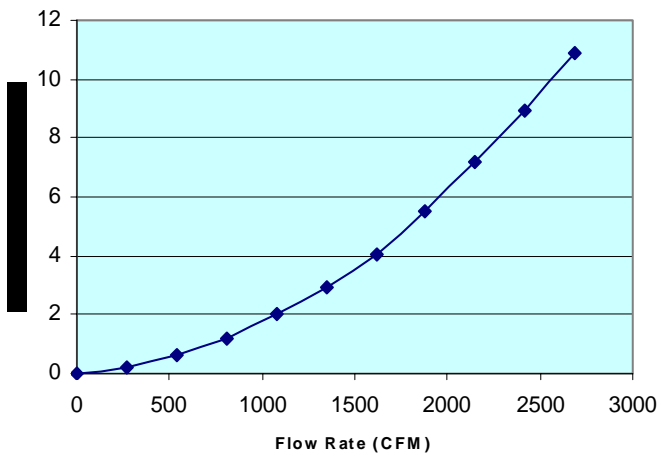
VS SERIES FILTERS

MODEL VSR-1600

The VSR-1600 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4"10 GAC)



VSR-1600 SPECIFICATIONS

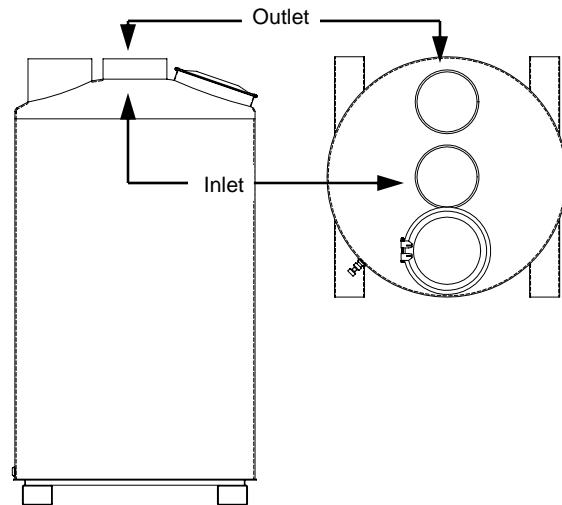
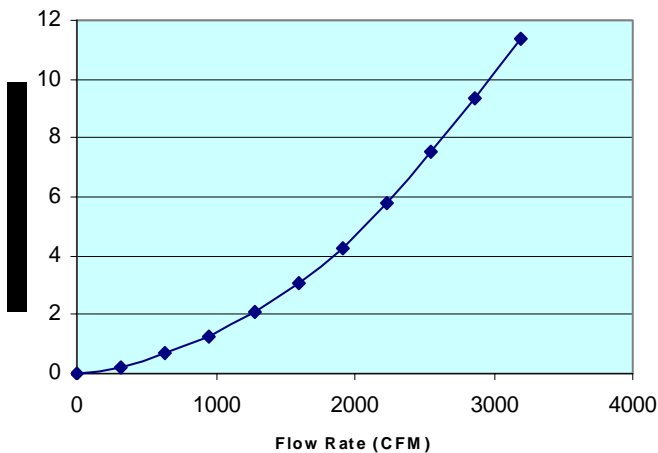
| | | | |
|-------------------------------------|-------------|----------------------------------|----------------------------|
| Overall Height | 7'1" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 48" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 12" PE | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 3/4"/OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 1,600 | Cross Sectional Bed Area | 28.75 FT ² |
| Shipping / Operational Weight (lbs) | 2,700/3,050 | Bed Depth/Volume | 17 IN / 57 FT ³ |

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The VSR-2600 filter is a radial flow filter vessel designed to treat vapor streams where pressure drop is a strong concern. With the radial design in certain applications the user can obtain higher flow rates than could be obtained in similar upflow filters. Some applications include:

- Soil Vapor Extraction Treatment
- Air Stripper Off Gas Treatment
- Odor Removal System
- Storage Tank Purge Vapor Treatment
- Industrial Process Treatment

PRESSURE DROP GRAPH
(As Filled 4*10 GAC)



VSR-700 SPECIFICATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|----------------------------|
| Overall Height | 7'2" | Vessel/Internal Piping Materials | CS/ SCH 40 PVC |
| Diameter | 60" | Internal Coating | Polyamide Epoxy Resin |
| Inlet / Outlet (FNPT) | 16" PE | External Coating | Epoxy Mastic |
| Drain / Vent (FNPT) | 3/4"/OPT | Maximum Pressure / Temp | 6 PSIG / 150° F |
| GAC Fill (lbs) | 2,600 | Cross Sectional Bed Area | 48 FT ² |
| Shipping / Operational Weight (lbs) | 4,050/4,500 | Bed Depth/Volume | 21 IN / 93 FT ³ |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET FILTRATION MEDIA ANTHRACITE

GENERAL DESCRIPTION

Crushed anthracite makes an excellent medium density filtration media. Because of its fractured shape, some of the sediment penetrates deeper into the bed. When compared to equivalent filter sands, this means longer filter runs and less head loss. Backwash rates are also reduced.

Anthracite, because of its unique density, can be used in multi-media filters. At 56 lbs./sq. ft. it will hydraulically lassify and remain above heavier media such as filter sand or Manganese Greensand providing a prefiltration layer.

| Physical Properties: | |
|---------------------------|-------------------------|
| Color | Black |
| Density | 56 lbs./cu. ft. |
| Sphericity | 0.6 |
| Hardness | 3.0 - 3.8 (Moh's Scale) |
| Acid Solubility | <1% |
| Caustic Solubility | <1% |
| Apparent Specific Gravity | 1.65 |

| Physical Properties by Product: | #1 Anthracite | #2 Anthracite | #3 Anthracite |
|---------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Product | #1 Anthracite | #2 Anthracite | #3 Anthracite |
| Part # | A8029 | A8030 | A2031 |
| Effective Size | 0.6 - 0.8 mm | 0.85 - 0.95 mm | 1.7 - 2.0 mm |
| Uniformity Coefficient | 1.5 | 1.6 | 1.5 |
| Mesh Size | 14 x 30 | 10 x 20 | 4 x 12 |
| Back Wash Rate | 12 - 18 gpm/sq. ft. | 18 - 25 gpm/sq. ft. | use air scour |
| Bed Depth | 24 - 36 in., 10 - 18 in. in multi-bed filters | 24 - 36 in., 10 - 18 in. in multi-bed filters | 24 - 36 in., 10 - 18 in. in multi-bed filters |
| Backwash Bed Expansion | 35 - 50% of bed depth | 35 - 50% of bed depth | 35 - 50% of bed depth |
| Service Flow Rate gpm/ft2 | 5 GPM/ft2 or higher | 5 GPM/ft2 or higher | 5 GPM/ft2 or higher |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET
 FILTRATION MEDIA
 BIRM®

GENERAL DESCRIPTION

Birm is an efficient and economical method of removing dissolved iron and manganese compounds from raw water supplies. It may be either gravity fed or pressurized water treatment systems. Birm acts as an insoluble catalyst to enhance the reaction between dissolved oxygen (D.O.) and the iron compounds. The physical characteristics of Birm provide an excellent filter media which is easily cleaned by backwashing to remove the precipitant. Birm is not consumed in the iron removal operation and therefore offers a tremendous economic advantage over many other iron removal methods.

Birm is furnished in two grades, regular and fine. Regular is generally recommended for industrial, municipal, and most domestic installations. Fine is recommended on domestic installations where backwash rates are limited. Birm may also be used for manganese removal with the same dependability as iron removal.

| Physical Properties - Regular Birm: | |
|--------------------------------------------|---------------------|
| Color | Black |
| Density | 47- 50 lbs./cu. ft. |
| Effective Size | 0.61 mm |
| Uniformity Coefficient | 1.72 |

| Physical Properties - Fine Birm: | |
|-----------------------------------------|---------------------|
| Color | Black |
| Density | 47- 50 lbs./cu. ft. |
| Effective Size | 0.49 mm |
| Uniformity Coefficient | 2.14 |

| Conditions For Operation: | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Alkalinity should be greater than two times the combined sulfate and chloride concentration. | |
| pH | 6.8+ |
| Dissolve Oxygen content must be equal to at least 15% of the iron (and manganese) content | |
| Bed Depth | 30 - 36 in. |
| Backwash Rate | Regular Birm: 10 - 20 gpm/sq. ft. Fine Birm: 8 - 10 gpm/sq. ft. |
| Backwash Expansion Rate | 35 - 50% of bed depth |
| Service Flowrate | 3.5 - 5 gpm/sq. ft. intermittent flow rates and/or favorable local conditions may allow higher flow rates |

BIRM IS A REGISTERED TRADEMARK OF CLACK CORPORATION

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET
FILTRATION MEDIA

8*30 RE-ACTIVATED CARBON
4*10 RE-ACTIVATED CARBON

GENERAL DESCRIPTION

Select Re-Activated carbon from domestic sources is quality screened during our purchasing process for activity, density and fines. The use of re-activated carbon is recommended as a lower cost alternative for most sites where drinking water quality is not necessary. In many cases our re-activated carbon meets and exceeds imported virgin carbon. In addition all carbon either sold by itself or installed in our filtration units is traced by lot number to the installation or sale.

| 8*30 (Liquid Phase) Standard Specifications: | Standard | Value |
|-----------------------------------------------------|-----------------|------------------------|
| Iodine Number | ASTM D-4607 | 800 Minimum |
| Moisture Content | ASTM D-2867 | 5% Maximum (as packed) |
| Particle Size | ASTM D-2862 | 8x30 US Mesh |
| Ash | | 10% Maximum |
| Total Surface Area (N ₂ BET) | | 1050 Minimum |
| Pore Volume (cc/g) | | 0.75 |

| 4*10 (Vapor Phase) Standard Specifications: | Standard | Value |
|----------------------------------------------------|-----------------|------------------------|
| Carbon Tetrachloride Activity Level | ASTM D-3467 | 40 Minimum |
| Moisture Content | ASTM D-2867 | 5% Maximum (as packed) |
| Particle Size | ASTM D-2862 | 4x10 US Mesh |
| Ash | | 10% Maximum |
| Total Surface Area (N ₂ BET) | | 1050 Minimum |
| Pore Volume (cc/g) | | 0.75 |

| Packaging | | |
|------------------------|-----------------|-------------|
| 50 Pound Bags | 50 Pound Drums | Bulk Tanker |
| 1,000 Pound Bulk Sacks | 200 Pound Drums | |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET
 FILTRATION MEDIA
 8*30 VIRGIN CARBON
 4*10 VIRGIN CARBON

GENERAL DESCRIPTION

Select virgin carbon is quality screened during our purchasing process for activity, density and fines. The use of virgin carbon is recommended where drinking water quality is necessary. All carbon either sold by itself or installed in our filtration units is traced by lot number to the installation or sale.

| 8*30 (Liquid Phase) Standard Specifications: | Standard | Value |
|-----------------------------------------------------|-----------------|------------------------|
| Iodine Number | ASTM D-4607 | 1200 Minimum |
| Moisture Content | ASTM D-2867 | 5% Maximum (as packed) |
| Particle Size | ASTM D-2862 | 8x30 US Mesh |
| Ash | | 10% Maximum |
| Total Surface Area (N ₂ BET) | | 1050 Minimum |
| Pore Volume (cc/g) | | 0.75 |

| 4*10 (Vapor Phase) Standard Specifications: | Standard | Value |
|----------------------------------------------------|-----------------|------------------------|
| Carbon Tetrachloride Activity Level | ASTM D-3467 | 60 Minimum |
| Moisture Content | ASTM D-2867 | 5% Maximum (as packed) |
| Particle Size | ASTM D-2862 | 4x10 US Mesh |
| Ash | | 10% Maximum |
| Total Surface Area (N ₂ BET) | | 1050 Minimum |
| Pore Volume (cc/g) | | 0.75 |

| Packaging | | |
|------------------------|-----------------|-------------|
| 50 Pound Bags | 50 Pound Drums | Bulk Tanker |
| 1,000 Pound Bulk Sacks | 200 Pound Drums | |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET FILTRATION MEDIA

EC-100 ®

GENERAL DESCRIPTION

EC-100 is a granular, organically modified clay filtration medium for water treatment systems. A blend of bentonite and anthracite treated with a quaternary amine, EC-100 removes mechanically emulsified oil and grease, large molecular weight chlorinated hydrocarbons and heavy metals.

EC-100 used as a pre-treatment to liquid carbon filtration systems can provide longer run times than with carbon alone and therefore decreased operational costs.

| Physical Properties - EC-100: | |
|--------------------------------------|-----------------------|
| Color | Grey/Tan/Black |
| Density | 61 lbs./cu. ft. |
| Effective Size | 8 x 30 U.S. Mesh Size |
| Moisture | 8% Max |
| Water Retention Drained | 10% |

| Conditions For Operation: | |
|----------------------------------|----------------------------------------------------|
| Hydraulic Loading | 2-5 gpm/sq. ft. |
| Support Bed | 2" Over Underdrain Required (Gravel or Anthracite) |
| Backwash Expansion | 20% of Bed Depth |
| Bed Depth | 36 in. |
| Retention Time | 7-10 Minutes |

EC100 IS A REGISTERED TRADEMARK OF BIOMEN, INC.

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET FILTRATION MEDIA FILTER LITE

GENERAL DESCRIPTION

Filter-Lite granules have irregular surface characteristics Wsfording maximum removal of suspended matter throughout the filter bed. Filter-Lite can be applied to systems designed for either pressure or gravity flow.

Filter-Lite has many outstanding advantages over the more common granular filter medias used for suspended solids removal. Substantial savings can be realized, when designing a system using Filter-Lite, because equipment can be smaller, requiring less square foot area. Filter-Ag is a lightweight substance, which means additional savings in backwash rates. Filter-Lite typically removes the normal suspended solids, down to the 20-40 micron

| Physical Properties: | |
|------------------------|----------------------|
| Color | Light Grey |
| Density | 24 - 26 lbs./cu. ft. |
| Effective Size | 0.57 mm |
| Uniformity Coefficient | 1.66 |

| Conditions For Operation: | |
|---------------------------|------------------------------------------------------------------|
| Max. Temperature | 140° F (60° C) |
| Bed Depth | 24 - 36 in. |
| Backwash Rate | 8 - 10 gpm/sq. ft. |
| Backwash Expansion Rate | 35 - 50% of bed depth |
| Service Flow | 5 gpm/sq. ft., although considerably higher rates are often used |

| Advantages: |
|------------------------------------------------------------------------------------------------------------------------------------------|
| There is less pressure loss though a bed of Filter-Ag than most other filter medias. |
| Light weight requires lower backwash rates than those required for other filter media. |
| High service rates result in lower equipment costs and a savings in space. |
| High dirt removal capacity results in longer filter run, with a substantial savings in labor costs, backwash water and time out service. |

Mid-Atlantic Environmental Equipment, Inc.
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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET FILTRATION MEDIA MANGANESE GREENSAND

GENERAL DESCRIPTION

Manganese Greensand is formulated from a glauconite greensand which is capable of removing iron, manganese, and hydrogen sulfide from water through oxidation and filtration. Soluble iron and manganese are oxidized and precipitated by contact with higher oxides of manganese on the greensand granules. The hydrogen sulfide is eliminated by oxidation to sulfate and an insoluble precipitate. Precipitates are then filtered and removed by backwashing. When the oxidizing capacity power of the Manganese Greensand bed is exhausted, the bed has to be regenerated with a weak potassium permanganate (KMnO₄) solution thus restoring the oxidation capacity of the bed.

Two to four ounces of potassium permanganate, in solution, /cu ft. of Manganese Greensand is sufficient for normal regeneration. It is advisable to vigorously backwash and regenerate the bed when it is placed in service and before its oxidation capacity is totally exhausted. To operate the bed W/Ster its oxidation capacity is exhausted may reduce its service life.

| Capacity/cu. ft.: | |
|--------------------|-------------------------------------------------------------------------------------|
| Iron Alone | 550 gr. (10,000 gal. of water containing 1 ppm iron/cu. ft.) |
| Iron and Manganese | 400 gr. (7,000 gal. of water containing 1/2 ppm iron and 1/2 ppm manganese/cu. ft.) |
| Hydrogen Sulfate | 175 gr. (3,000 gal. water containing 1 ppm hydrogen sulfide/cu. ft.) |

| Physical Properties: | |
|-------------------------|-----------------|
| Color | Black |
| Density | 85 lbs./cu. ft. |
| Effective Size | 0.30 - 0.35 mm |
| Uniformity Coefficient | 1.6 |
| Mesh Size | 16 - 60 |
| Attrition Loss Per Year | 2% |

| Conditions For Operation: | |
|-------------------------------------------------------------|--------------------------------------------------------------|
| Raw Water pH | 6.2 - 8.8 |
| Bed Depth | 30 in. |
| Freeboard | 35 - 50% |
| Service Flow Rate | 5 gpm/sq. ft., 8 - 10 gpm/sq. ft. intermittent flow possible |
| Backwash Flow Rate | 8 - 12 gpm/sq. ft. |
| Max. Temperature Raw Water | 80°F. - 26.7°C. |
| Max. Practical Limit if Iron or Manganese in Raw water | 15 ppm |
| Max. Practical Limit of Hydrogen Sulfide (H ₂ S) | 5 ppm |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET
 FILTRATION MEDIA
 MTBE REMOVAL CARBON

GENERAL DESCRIPTION

MTBE REMOVAL CARBON is designed specifically for the removal of methyl tert-butyl ether (MTBE) from groundwater . It is available as a coal based or coconut shell based product. The pore structure of MTBE is designed for increased capacity for trace and weakly adsorbed organics such as MTBE. Studies have shown that its capacity for MTBE significantly exceeds that of standard carbon. As the cost of MTBE exceeds standard GAC we recommend the use of traditional GAC filters upstream when other more easily adsorbed compounds are present.

| Standard Specifications: | Standard | Value |
|---------------------------------|-----------------|---------------------------|
| Iodine Number | ASTM D-4607 | 900 Minimum |
| Moisture Content | ASTM D-2867 | 5% Maximum (as packed) |
| Particle Size | ASTM D-2862 | 8x30, 12x40 US Mesh |
| Ash | ASTM D-2866 | 5% Maximum |
| Apparent Density | ASTM D-2866 | .45~.56 g/cm ³ |
| Ball Pan Hardness | ASTM D-3802 | 95 Minimum |

| Packaging | | |
|------------------------|-----------------|-------------|
| 50 Pound Bags | 50 Pound Drums | Bulk Tanker |
| 1,000 Pound Bulk Sacks | 200 Pound Drums | |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET
 FILTRATION MEDIA
 FILTER SAND

GENERAL DESCRIPTION

Filter Sand is a naturally occurring, river washed, glacial deposit products. Its excellent chemical properties - high in silica content and low in soluble calcium, magnesium and iron compounds - meet AWWA-B100-89 specifications. Precision sizing and uniform grading to close limits meet the rigid specifications of professional engineers throughout the United States, Canada and overseas.

Purpose - Filter Sand is graded specifically for water filtration plants. It can be used in municipal, industrial or residential applications.

| Physical Properties: | |
|-----------------------------|----------------------------|
| Color | Light tan to reddish brown |
| Density | 100 lbs./cu. ft. |
| Effective Size | 0.45 - 0.55 mm |
| Uniformity Coefficient | 1.6 or less |
| Acid Solubility | 0.3 - 1.6% |
| Specific Gravity | 2.65 - 2.75 |

| Conditions For Operation: | |
|----------------------------------|----------------------------------------------------------------------------------------|
| Bed Depth | 18 - 30 in. |
| Backwash Rate | 15 - 20 gpm/sq. ft. |
| Backwash Expansion | 35 % of bed depth |
| Service Flowrate | Municipal: 1.5 - 2 gpm/sq. ft. Industrial: 3 gpm/sq. ft. Domestic: 5 gpm/sq. ft. |

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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

Filter Service Change-Out Services Fixed Media Beds

MAE2 offers long term support options for filtration products. With Change-Out teams In Atlanta, Boston, Denver, and Indianapolis we will be on site when you need us. Our equipment consists of Chevy 3500HD Flatbed Trucks with heavy duty 16' flatbed trailers. Our GCWR is 26,000 Lbs. with a 12,000 Lb. tare weight. With equipment on-board we have the capability to perform a 4,000 lb liquid phase change-out and a 6,000 lb vapor phase change-out fully self contained. We can perform significantly larger change-outs with the support of contract carriers.

On-Site Change-out Service

We come to your site and vacuum the spent media from the filter to be serviced. The spent media is either loaded into our receiving hoppers (non-hazardous) or 55 gal drums (hazardous). Internals and linings are inspected and fresh media is then placed back into the filter.

If the media is non-hazardous it is taken away at the time of service by our crew. If the media is hazardous a certified carrier is used to transport the media to the hazardous waste treatment facility.

All non-hazardous media is consolidated at our facility in Anderson, In. Usually the media is transferred into super-sacks and sent to a carbon regenerator via van semi truck.

In-House Service

All return hoppers, vessels, drums, etc. are sorted and consolidated in our spent carbon receiving area. We can service any manufacture's filter unit at our facility. The spent media is removed, vessel is inspected and refilled.



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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET PACKAGED FILTRATION SYSTEMS

GENERAL DESCRIPTION

Packaged Filtration Skids consist of one or more liquid or vapor units connected together via a piping manifold. Any of our units may be used and the available arrangements are limitless.

All systems are designed by our in-house engineering team to uniquely meet your process requirements.

Some advantages of packaged systems include:

- Quick site installation & setup
- More efficient design
- More economical than on-site fit-up
- Improved system performance



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MID-ATLANTIC ENVIRONMENTAL EQUIPMENT, INC.

PRODUCT DATA SHEET ROLL-OFF STYLE VAPOR FILTERS

GENERAL DESCRIPTION

Roll-Off Vapor Filters are essentially large VS filters mounted to a roll-off chassis for ease of handling. These filters may be readily moved from point to point at a site and transported to the spent carbon reactivation facility for low cost regeneration.

All systems are designed by our in-house engineering team to uniquely meet your process requirements. In addition we can custom build the filter for handling by any roll-off vehicle or intermodal carrier.



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