

Exhaust Filters & Mufflers

Standard Exhaust Filters & Directional Exhaust Filters



1417P-10

- Filters oil mist from pump exhaust
- Easy replacement of element
- Reduces pump noise
- Filters to 0.3 micron particle size
- Screw-in type

| Standard Exhaust Filters | | | | |
|---|--------------------|--------|-----------------|------------------------------|
| Use with Pump Model | Dimensions, inches | | Filter CAT. No. | Replacement Element CAT. No. |
| | Diameter | Height | | |
| 8890 ¹ , 8905, 1399, 1400, 1400N | 2.5" | 2.5" | 1417 | 1417L (2 pk) |
| 8907, 8912, 8917 | 2.5" | 4.5" | 1417P-7 | 1417R |
| 8920, 8925, 1376, 1402, 1405, 1402N, 1376N | 5.0" | 6.25" | 1417P-10 | 1417G |
| 1397, 1374 | 5.0" | 9.0" | 1417P-20 | 1417H-01 |
| 8917A-80, 8947C-80 | 2.5" | 4.5" | 1417P-7 | 1417R |

Note: 1. GEM® (8890) includes 1417 as standard equipment.



1417A

- Large, high capacity
- 360° Swivel outlet with tubing connector
- Screw-in type
- Continuously separates oil mist from the vacuum pump exhaust and by gravity returns the oil to the pump.

| Directional Exhaust Filters | | | | | | |
|--|--------------------|--------|------------------|-----------------|------------------|-----------------------------|
| Use with Pump Model | Dimensions, inches | | | Filter CAT. No. | Element CAT. No. | Gasket Replacement CAT. No. |
| | Diameter | Height | Outlet Tube O.D. | | | |
| 8907, 8912, 8917, 8920, 8925, 1376, 1380, 1402, 1405, 1402N, 1376N | 5.0" | 7.5" | 1.0" | 1417A | 1417G | 1417A-01 |
| 8907, 8912, 8917 | 6.5" | 10.0" | 2.0" | 1417B | 1417H | 1417B-01 |

Exhaust Oil Recycler



Exhaust Mist Eliminator shown installed on pump with oil return line.

Exhaust oil recyclers are recommended for vacuum systems with continuous pressure of 1 torr (1mm Hg) or higher.¹ At these pressures, conventional exhaust filters quickly saturate. The Mist Eliminator System continuously separates oil mist from the vacuum pump exhaust and actively returns the oil to the pump.

| CAT. No. | Vacuum Pump Model No. |
|----------|--------------------------------|
| 1416B | 8890 (GEM®) |
| 1416H | 8905 |
| 1416C | 8907, 8912, 8917, 8920, 8925 |
| 1416H-01 | 1400, 1400N |
| 1416C-01 | 1376, 1376N, 1402, 1402N, 1405 |

Note: 1. CAUTION: Two stage vane vacuum pumps such as models 8905, 8907, 8912, 8920, 8917, 8925, 1400, 1402, 1376, 1405, 1400N, 1402N and 1376N should not be operated continuously at pressures above 10torr.

Hermetically Sealed Oil Mist Eliminators



When attached to an effective exhaust line, the hermetically sealed oil mist eliminator prevents corrosive vacuum pump exhaust gases from escaping into the room. It also coalesces oil mist from the pump exhaust and allows it to drain back into the pump. Coalescing the oil mist prevents loss of oil and the frequent need to add expensive vacuum fluids. Stainless steel construction with borosilicate microfiber element and fluoroelastomer gaskets. Requires, but does not include pump adaptor kit. Dimensions of CAT. No. 1416D: 5"Wx7-3/4"H; 1416F, 5"Wx13-3/8"H. 1416D exhaust port accepts 13/16" I.D. hose.

| Use with Pump Model | Mist Eliminator CAT. No. | Pump Adaptor CAT. No. | Replacement Element CAT. No. |
|---------------------|--------------------------|-----------------------|------------------------------|
| 1400N | 1416D | 1416E-01 | 1417Y-05 |
| 1402N, 1376N | 1416D | 1416E-02 | 1417Y-05 |

Peristaltic - Fluid Transfer Pumps

Models 3100/3200

Replacement Cartridges for Models 3100/3200

| Material | Silicone | PVC |
|--------------------------------|-------------------------------------|-------------------------------------|
| Applications | Biofluids / Food | General Lab, Viscous Fluids |
| Tubing I.D. (Flow Rate Range) | Tubing Cartridges (5 each) CAT. No. | Tubing Cartridges (5 each) CAT. No. |
| 1.6mm (3-30 ml/min) - 5 pack | 3432K-01 | 3434K-01 |
| 3.2mm (10-130 ml/min) - 5 pack | 3432K-02 | 3434K-02 |
| 4.8mm (30-300 ml/min) - 5 pack | 3432K-04 | 3434K-04 |



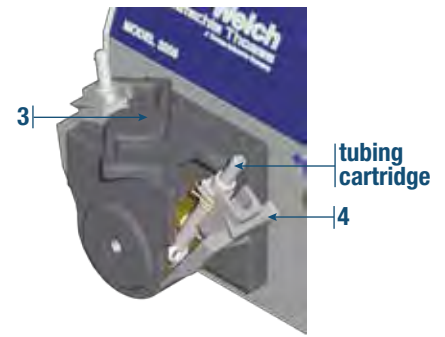
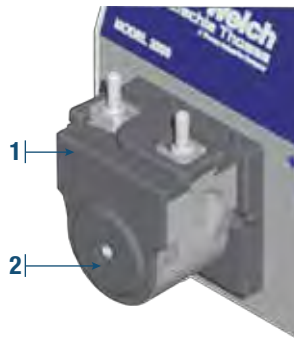
3100



3200

Service Kit CAT. No. 3200K-02 for Models 3100/3200

| ID | Qty. | Description |
|----|------|----------------|
| 1 | 1 | Pump Head |
| 2 | 1 | Roller Carrier |
| 3 | 1 | Lock |
| 4 | 1 | Rolling Band |



Index

| Catalog No. | Page No. |
|-------------|----------------|
| 1201E | 46 |
| 1201T | 46 |
| 1371A-01 | 19,20,24,25,26 |
| 1371A-01 | 26 |
| 1373K-05 | 36 |
| 1373K-06 | 36 |
| 1374 | 18 |
| 1374A | 18 |
| 1374K-07 | 18 |
| 1374K-08 | 18 |
| 1376 | 19 |
| 1376B-46 | 36 |
| 1376K-05 | 19 |
| 1376K-06 | 19 |
| 1376K-09 | 26 |
| 1376K-10 | 26 |
| 1376K-46 | 36 |
| 1376K-47 | 36 |
| 1376N | 26 |
| 1380 | 20 |
| 1380K-03 | 20 |
| 1380K-04 | 20 |
| 1393F | 7,27 |
| 1393G | 7,26,28 |
| 1393G | 28 |
| 1393H | 7 |
| 1393J | 22,23 |
| 1393K | 19,20,24,25 |
| 1393L | 18,21 |
| 1393N | 8 |
| 1393P | 8 |
| 1393X | 7,29 |
| 1397 | 21 |
| 1397A | 21 |

| Catalog No. | Page No. |
|-------------|-------------------|
| 1397B-46 | 36 |
| 1397K-07 | 21 |
| 1397K-08 | 21 |
| 1397K-46 | 36 |
| 1397K-47 | 36 |
| 1399 | 22 |
| 1399A | 22 |
| 1399K-03 | 22 |
| 1399K-04 | 22 |
| 1400 | 23 |
| 1400A | 23,27 |
| 1400K-03 | 23 |
| 1400K-04 | 23 |
| 1400K-09 | 27 |
| 1400K-10 | 27 |
| 1400N | 27 |
| 1401D | 19,20,24,25,26,28 |
| 1401D-01 | 19,20,24,25,26 |
| 1401E | 22,23,27 |
| 1401E-01 | 22,23,27 |
| 1401F | 18,21 |
| 1402 | 24 |
| 1402B-46 | 36 |
| 1402K-02 | 25 |
| 1402K-05 | 24,25 |
| 1402K-06 | 24 |
| 1402K-09 | 28 |
| 1402K-10 | 28 |
| 1402K-46 | 36 |
| 1402K-47 | 36 |
| 1402N | 28 |
| 1405 | 25 |
| 1405A | 19,20,24,25,26,28 |
| 1407K-11 | 3 |

| Catalog No. | Page No. |
|-------------|-------------------|
| 1407K-15 | 3 |
| 1407K-20 | 3 |
| 1412C | 13,51,52 |
| 1412D | 13 |
| 1412E | 13 |
| 1415B | 13,42,51,52,53,54 |
| 1415C | 13,51,52,53,54 |
| 1415D | 13 |
| 1416B | 12 |
| 1416C | 12 |
| 1416C-01 | 12 |
| 1416D | 12 |
| 1416E-01 | 10,12 |
| 1416E-02 | 10,12 |
| 1416H | 12 |
| 1416H-01 | 12 |
| 1417 | 12,29 |
| 1417G | 12 |
| 1417H-01 | 12 |
| 1417L | 12,29 |
| 1417P-10 | 12 |
| 1417P-20 | 12 |
| 1417P-7 | 12 |
| 1417R | 12 |
| 1417Y-05 | 12 |
| 1420H-01 | 11 |
| 1420H-02 | 11 |
| 1420H-14 | 10 |
| 1420H-17 | 11 |
| 1420H-18 | 11 |
| 1420H-19 | 11 |
| 1420H-20 | 10 |
| 1420H-21 | 10 |
| 1421 | 5 |

| Catalog No. | Page No. |
|-------------|----------|
| 1421D | 5 |
| 1423B | 13,42 |
| 1426 | 45 |
| 1426K-01 | 45 |
| 1430A | 11 |
| 1430B | 11 |
| 1430C | 11 |
| 1475K-01 | 55 |
| 1475K-02 | 55 |
| 1475K-03 | 55 |
| 1475K-04 | 55 |
| 1475K-05 | 55 |
| 1475K-06 | 55 |
| 1475K-07 | 55 |
| 1475K-08 | 55 |
| 1475K-09 | 55 |
| 1475K-10 | 55 |
| 1475K-20 | 55 |
| 1475K-21 | 11,55 |
| 1475K-22 | 11 |
| 1475K-23 | 11 |
| 1515 | 4 |
| 1515A | 4 |
| 1515B | 4 |
| 1520B-01 | 4 |
| 1520B-02 | 4 |
| 1520K-10 | 4 |
| 1520K-11 | 4 |
| 1525B-01 | 4 |
| 1525C-02 | 4 |
| 1525K-10 | 4 |
| 1525K-11 | 4 |
| 1801Z | 46 |
| 2014 | 38 |