Maxima C Plus™

Vacuum Pumps for:
Vacuum Ovens, Glove Boxes, Freeze Dryers,
Centrifugal Concentrators, Annular Spaces/Transfer Lines

ONE SOURCE. INFINITE SOLUTIONS.®
Fisher Scientific™ Vacuum Pumps

Maxima C Plus™ Vacuum Pumps Configured Ready to Use

Design Features

Gas Ballast
To minimize condensation of vapors in pump.

Hose Barb
Allowing two sizes of I.D. hose to connect to your system per pump.

Oil Mist Eliminator
Trapped oils naturally fall back into the oil case via gravity after pump down.

Intake Antisuckback Valve
To prevent oil back flow on power shut down or power failure.

PTFE Coated Oil Case
Prevents particles and sludge from clinging to the walls of the oil case to simplify oil change.

Black Oxide Coated Pump Module
Coated to prevent corrosion when exposed to vapors. Valves, fasteners, flanges and connectors are made of stainless steel.

Easy Oil Change Valve
Drain valve for quick and easy oil changes. No tools required.

Large Site Glass
Easily assures proper oil level.

Hose Clamp
Holds hose tight to hose barb.

Funnel
Provided to allow quick oil adds.

* Maxima C Plus vacuum pumps not recommended for filtration, aspiration and gel drying or any applications continuously operating above 10-torr absolute pressure.
Find the correct vacuum pump/system to address your application needs. The Fisher Scientific product line offers a wide range of vacuum pumps – each expertly designed for optimum function in your application.

<table>
<thead>
<tr>
<th>Application</th>
<th>Size of Lab Apparatus</th>
<th>Accessories</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum Oven</td>
<td>28 L (1 ft³) or smaller</td>
<td>A, C, D, E</td>
<td>M2C</td>
</tr>
<tr>
<td>Drying</td>
<td>28-70 L (1 to 2.5 ft³)</td>
<td></td>
<td>M4C</td>
</tr>
<tr>
<td>Degassing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glove Box</td>
<td>4 ft³ or smaller</td>
<td>A, E</td>
<td>M6C</td>
</tr>
<tr>
<td></td>
<td>6 ft³ or smaller</td>
<td></td>
<td>M8C</td>
</tr>
<tr>
<td>Freeze Dryer* Lyophilizing</td>
<td>4.5 L or smaller, 5-12 L</td>
<td>A, C, E</td>
<td>M6C, M8C</td>
</tr>
<tr>
<td></td>
<td>14-25 L</td>
<td></td>
<td>M12C</td>
</tr>
<tr>
<td>Centrifugal Concentrators*</td>
<td>100 Tube</td>
<td>A, C, E</td>
<td>M8C</td>
</tr>
<tr>
<td></td>
<td>200 Tube</td>
<td></td>
<td>M12C</td>
</tr>
<tr>
<td>Annular Space/ Transfer Line</td>
<td>3.8 ft³</td>
<td>A, E</td>
<td>M6C, M12C</td>
</tr>
<tr>
<td></td>
<td>7.7 ft³</td>
<td></td>
<td>M16C</td>
</tr>
<tr>
<td></td>
<td>11.3 ft³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* When Harsh chemicals such as TFA and ACN are being pumped, these chemicals can shorten the pump’s life. A cold trap is recommended for extended life. Proper oil maintenance and oil selection is also essential. See owner’s manual for more information on how to take care of your vacuum pump.

**Accessories for Maxima C Plus™ Pumps**

A **Replacement Element for Oil Mist Eliminator**
Use when supplied element becomes saturated with oil.

For Models | Catalog No.
---|---
M2C | 01-257-6A
M4C, M6C | 01-257-6B
M8C | 01-257-45
M12C, M16C | 01-257-6C

B **Exhaust Oil Recyclers**
Use when pumping continuously above 1 Torr.
Captures oil mist from the pump, and returns collected oil to the pump via a gas ballast connection.

For Models | Catalog No.
---|---
M2C | 01-257-7A
M4C-M16C | 01-257-7B

C **Dry Ice/Liquid Nitrogen Trap**
Large cold chamber provides fast freezing to condense vapors. Also prevents oil backstreaming. Dry ice/isopropyl slurry to produce at a temperature of (-79°C) or liquid nitrogen (-198°C) may be used as refrigerant. Accepts 1/2 in. OD (12.7mm) tubing.

For Models | Catalog No.
---|---
M2C-M16C | 01-257-14

D **Vacuum Oven Hose Adapter Kit**
Kit ensures proper sized tubing, adapters, and clamps for vacuum-tight connection to Fisher Scientific IsoTemp™ vacuum ovens, models 280A, 281A, 282A, 285A.

For Models | Catalog No.
---|---
M2C-M16C | 01-257-12

E **Maxima C Plus Pump Oil**

<table>
<thead>
<tr>
<th>For Models</th>
<th>Vacuum Pump Oils</th>
<th>1 Liter</th>
<th>1 Gallon</th>
<th>5 Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2C, M4C, M6C</td>
<td>Maxima C Plus</td>
<td>01-257-4A</td>
<td>01-257-4B</td>
<td>01-257-4D</td>
</tr>
</tbody>
</table>

**Notes:**
1. Maxima C Plus Pump oil is a triple-distilled, severely hydrotreated oil designed to resist breakdown at higher RPMs and operating temperatures of direct-drive vacuum pumps. Premium Oil enables Fisher Scientific direct-drive vacuum pumps to maintain the highest vacuum performance.
Fisher Scientific™ Vacuum Pumps
Maxima C Plus™ Specifications and Ordering Information

Replacement Parts and Service
Available are minor repair kits and gasket and seal kits for each pump model. For a complete listing, pricing and availability of service parts, call Fisher Scientific Services Division at 1-800-395-5442. We also offer service after the sale. Several types of service agreements are available to cover your Maxima C Plus pump. For information and pricing, call Fisher Scientific Services Division at 1-800-395-5442.

Application Note for Filtration, Aspiration and Drying Electrophoresis Gels
Fisher Scientific Models M2C, M4C, M6C, M8C, M12C and M16C high vacuum pumps are not recommended for filtration, aspiration or drying electrophoresis gels. The reason is these drying process occur in the rough vacuum level (above 30 Torr (40 mbar)) and these vane pumps are not designed for high pressure operation.

Set-ups for Lab Applications
Proper vacuum system set-up in lab applications does reduce pump maintenance which lowers cost and increases user productivity. Proper vacuum system set-ups consist of the lab appliance, tubing, vacuum pump, and normally cold or liquid trap. Failure to use or maintain the appropriate trap will result in a shortened service life of the pump.

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For customer service, call 1-800-766-7000.
To fax an order, use 1-800-926-1166.
To order online: www.fishersci.com

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