The Rolling Media Filter (RMF) provides a highly efficient and reliable means of removing solids from process liquids. This filter is a non pressurized system which is economical and easy to operate. It can handle occasional system upsets or overloads without blinding the filter media.

The RMF is a fully automatic system that ensures efficient cleaning of any process fluid. It optimizes the amount of media used at the same time. The solids are discharged as a cake for easy handling and disposal.

The liquid to be filtered is pumped or gravity fed into inlet. It is then distributed to the flood box, which slows the velocity and discharges the liquid over the entire width of the filter media. The liquid filters through the media, and the solids are left behind collecting on the filter media surface. The clean liquid is discharged through the outlet into a tank or discharged into an open system.

As the solids are collected on the filter media, the liquid level rises to a preset level. A level sensor initiates an index cycle and fresh media is indexed displacing a portion of the spent media. The media is then discharged to a waste container.

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>A (inches)</th>
<th>A (mm)</th>
<th>B (inches)</th>
<th>B (mm)</th>
<th>C (inches)</th>
<th>C (mm)</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMF70</td>
<td>37.00</td>
<td>940</td>
<td>30.00</td>
<td>762</td>
<td>43.25</td>
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<td>71</td>
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<td>RMF145</td>
<td>34.25</td>
<td>870</td>
<td>40.00</td>
<td>1016</td>
<td>52.75</td>
<td>1340</td>
<td>146</td>
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<td>RMF210</td>
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<td>870</td>
<td>52.00</td>
<td>1321</td>
<td>52.75</td>
<td>1340</td>
<td>212</td>
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<td>870</td>
<td>64.00</td>
<td>1626</td>
<td>52.75</td>
<td>1340</td>
<td>275</td>
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<tr>
<td>RMF300</td>
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<td>1060</td>
<td>52.00</td>
<td>1321</td>
<td>65.75</td>
<td>1670</td>
<td>300</td>
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<td>RMF350</td>
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<td>870</td>
<td>73.00</td>
<td>1854</td>
<td>52.75</td>
<td>1340</td>
<td>350</td>
</tr>
<tr>
<td>RMF400</td>
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<td>1060</td>
<td>83.00</td>
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<td>RMF500</td>
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<td>73.00</td>
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<td>65.75</td>
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<td>500</td>
</tr>
<tr>
<td>RMF600</td>
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<td>83.00</td>
<td>2108</td>
<td>65.75</td>
<td>1670</td>
<td>600</td>
</tr>
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</table>
**Rolling Media Filtration**

**Construction Material:** Epoxy coated, Carbon steel

**Conveyor Material:** 304 stainless steel

**Seal Wheels:** Aluminum

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### How to Build a Valid Model Number for Rolling Media Filtration:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
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**Example:** NOTE: One option per box

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
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<tbody>
<tr>
<td>RMF</td>
<td>70</td>
<td>AL</td>
<td>CS</td>
<td>N</td>
<td>C</td>
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= RMF70ALCSNC

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### Filter Series

<table>
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<td>70</td>
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</tr>
<tr>
<td>145</td>
<td>145</td>
</tr>
<tr>
<td>210</td>
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<tr>
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### Wheel Material

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<tr>
<td>70</td>
<td>Aluminum</td>
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<tr>
<td>145</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>210</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>275</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>300</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>350</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>400</td>
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<td>500</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>600</td>
<td>Stainless Steel</td>
</tr>
</tbody>
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### Housing Material

<table>
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</thead>
<tbody>
<tr>
<td>70</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>145</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>210</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>275</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>300</td>
<td>Carbon Steel</td>
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<td>350</td>
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<td>400</td>
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<tr>
<td>500</td>
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<tr>
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<td>Carbon Steel</td>
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### Wheel Seals

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<tr>
<td>70</td>
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<td>145</td>
<td>Neoprene</td>
</tr>
<tr>
<td>210</td>
<td>Neoprene</td>
</tr>
<tr>
<td>275</td>
<td>Neoprene</td>
</tr>
<tr>
<td>300</td>
<td>Neoprene</td>
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<td>500</td>
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<td>Neoprene</td>
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### Options

<table>
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<tr>
<td>70</td>
<td>None</td>
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<tr>
<td>145</td>
<td>Cover</td>
</tr>
<tr>
<td>210</td>
<td>Media Recovery System</td>
</tr>
<tr>
<td>275</td>
<td>Contamination Dryer</td>
</tr>
<tr>
<td>300</td>
<td>Contamination Dryer</td>
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<td>350</td>
<td>Contamination Dryer</td>
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<td>Contamination Dryer</td>
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<td>500</td>
<td>Contamination Dryer</td>
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<tr>
<td>600</td>
<td>Contamination Dryer</td>
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### Micron Rating

<table>
<thead>
<tr>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>70</td>
<td>7 µm</td>
</tr>
<tr>
<td>145</td>
<td>12 µm</td>
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<tr>
<td>210</td>
<td>14 µm</td>
</tr>
<tr>
<td>275</td>
<td>18 µm</td>
</tr>
<tr>
<td>300</td>
<td>28 µm</td>
</tr>
<tr>
<td>350</td>
<td>50 µm</td>
</tr>
<tr>
<td>400</td>
<td>200 µm</td>
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</tbody>
</table>

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### Roll Width

<table>
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<tr>
<th>Size</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>27&quot; Wide (BWC 70/145)</td>
</tr>
<tr>
<td>39</td>
<td>39&quot; Wide (BWC 210/300)</td>
</tr>
<tr>
<td>51</td>
<td>51&quot; Wide (BWC 400)</td>
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<td>60</td>
<td>60&quot; Wide (BWC 500)</td>
</tr>
<tr>
<td>70</td>
<td>70&quot; Wide (BWC 600)</td>
</tr>
</tbody>
</table>

---

**Specifications**

**Filter Model Number Selection**

**Replacement Parts for RMF**