

# The Benefits of the 3M™ Zeta Plus™ Series Filters vs. The Plate and Frame Filter Press

Filter press	3M™ Zeta Plus™ Series Filters
<p><b>Leakage and beer loss</b></p> <ul style="list-style-type: none"> <li>▶ Can be as high as 1-2% of volume filtered</li> </ul>	<p><b>Zero leakage</b></p> <ul style="list-style-type: none"> <li>▶ No oxygen/bacteria pick up</li> </ul>
<p><b>Labour</b></p> <ul style="list-style-type: none"> <li>▶ It can take 2 to 4 hours to change a small filter press</li> <li>▶ When a filter press is repacked, it is not operating, reducing productivity</li> </ul>	<p><b>Greatly reduced labour</b></p> <ul style="list-style-type: none"> <li>▶ Zeta Plus Series Filters can be changed in 15 minutes</li> </ul>
<p><b>Filter change-outs</b></p> <ul style="list-style-type: none"> <li>▶ Filter sheets are changed on a timely basis, not when filtration capacity has been achieved</li> <li>▶ Risk of throwing away a percentage of unused filters</li> </ul>	<p><b>Fewer change-outs</b></p> <ul style="list-style-type: none"> <li>▶ Since cartridges are used completely, fewer filter change-outs are needed per year</li> </ul>
<p><b>Capital costs</b></p> <ul style="list-style-type: none"> <li>▶ Filter presses are large, expensive pieces of equipment</li> </ul>	<p><b>Decreased capital costs</b></p> <ul style="list-style-type: none"> <li>▶ Zeta Plus Series Filter housings are typically 25-50% the capital cost of a stainless-steel filter press</li> </ul>
<p><b>Maintenance</b></p> <ul style="list-style-type: none"> <li>▶ Presses typically have 4 O-rings per plate</li> <li>▶ Plate surfaces must be cleaned regularly</li> <li>▶ Plates are heavy and cumbersome to remove and clean</li> </ul>	<p><b>Low maintenance</b></p> <ul style="list-style-type: none"> <li>▶ Zeta Plus housing systems have 3 O-rings to maintain</li> <li>▶ Easy to clean, easy to maintain</li> </ul>
<p><b>Disposal</b></p> <ul style="list-style-type: none"> <li>▶ Filter sheets are discarded on a timed basis, additional disposal costs could be incurred as a result</li> </ul>	<p><b>Reduced disposal</b></p> <ul style="list-style-type: none"> <li>▶ Fewer change-outs a year results in less filters to dispose, reducing disposal costs</li> </ul>
<p><b>Floor space</b></p> <ul style="list-style-type: none"> <li>▶ A 60cm<sup>2</sup> press requires up to 100ft of floor space</li> </ul>	<p><b>Minimal floor space</b></p> <ul style="list-style-type: none"> <li>▶ Very small footprint</li> <li>▶ Frees up space for other operations</li> </ul>
<p><b>Energy</b></p> <ul style="list-style-type: none"> <li>▶ Filter presses have a great deal of steel to heat</li> <li>▶ A filter press typically takes 30-90 minutes to reach sanitation temperature</li> <li>▶ Filter presses have many dead legs which are hard to clean properly</li> </ul>	<p><b>Low energy consumption</b></p> <ul style="list-style-type: none"> <li>▶ The compact design allows the housing to reach sanitation temperature in approximately 15 minutes</li> <li>▶ Reduced energy/water operation time</li> </ul>