



Automatic Membrane Mash Filter



Efficient Wort Filtration Equipment

Lehui high-beam membrane mash filter is one of the best wort filtrating plants for the brewing process in the world, which could realize fully automatic unattended operation.

Core Advantages

□ High-beam Filter Plate Supported

- ▶ With all the filter plates sustained on a huge beam and chains for pulling hidden in it, the mash filter can pull plate to achieve grain removal continuously, which can save more than 50% time compared with traditional mode. Besides, the filter plate won't tip during operating, making grain removal faster and cleaner, which can also achieve changing the cloth in the original place.

□ Mixed Membrane Filter Plate

- ▶ It is a single version filter plate, of which one side is membrane, the other is filter cloth. It can blow to squeeze the grains after wort filtering or sparging, which can not only raise yield but also decrease the water content in spent grains.

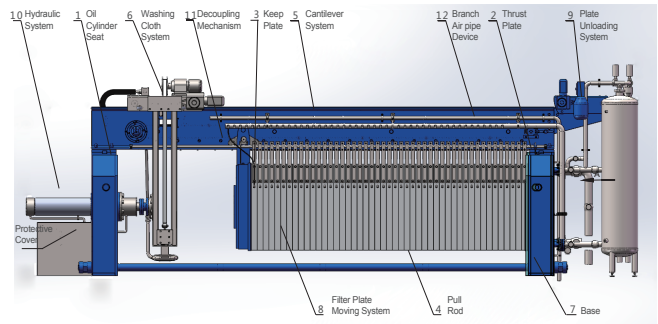
□ Dummy Plates In Middle, Flexible For Production Transformation



- ▶ Installing automatic filter cloth high-pressure cleaning device, realizing automatic filtration and automatic cleaning.
- ▶ The intermediate dummy plate is used to adjust the feeding amount and the proportion of raw material and auxiliary material without limit, and the flexibility is high.
- ▶ With automatic filter plate unloading device, easy to maintain and install.
- ▶ Special center mash feed technology and positive and negative washing technology to ensure the uniformity of mash distribution and wash thoroughly, to ensure the yield, to extend the filter cloth cleaning cycle, reducing water consumption.

Technical Parameters

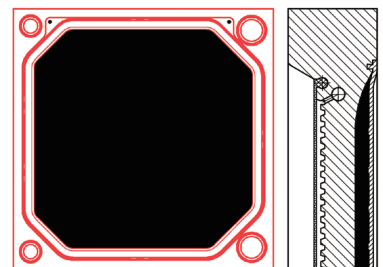
- ▶ Capacity: max. 16T malt for per mash filter, which is enough for a 80m³ brew house. As for 100m³ and 120m³ brew house, 2 mash filters are recommended, ensuring that filtration task is distributed evenly and that spent grain washing is uniform.



- ▶ Daily capacity: ≥ 14 brews per day, max 16 brews per day.
- ▶ Filtration turbidity: 2-3EBC (mixed wort turbidity)
- ▶ Solid content in wort: 1-2ml/l
- ▶ Oxygen pick up: ≤ 0.1 ppm. Almost realizing oxygen-free brewing.
- ▶ Residual sugar after spent grains washing: $\leq 1.0^\circ\text{P}$
- ▶ Yield ratio: $\geq 100\%$
- ▶ Control: full automatic control via pressure, flow, time and level.
- ▶ Water content of spent grains: $\leq 75\%$. Spent grains will be squeezed by membranes in the final stage. Water recovered could be used as weak wort in the next brewing. Water content in spent grains is also reduced, which is easy for transportation.
- ▶ Squeezing medium: Air, which is safer and more sanitary than water pressure.
- ▶ Applicable to high gravity brewing: normally $>17^\circ\text{P}$, max 23°P . Ratio of material to water could be as low as 2.2L/kg malt.
- ▶ Anti - deformation technology is adopted.
- ▶ Types of plate:
 - ▶ 1.2×1.2m applicable to 5-30m³ brewing
 - ▶ 1.5×2m applicable to 30-80m³ brewing

Optional Items

- ▶ Dummy plates: normally, mash filter could operate between 80%-110%. But for customers if they brew starch beer or whole ale, etc. with changeable malt, dummy plates are necessary.
- ▶ Automatic filter cloth washing device: filter cloth could be cleaned automatically every week without personnel.
- ▶ Filter plate unloading device: easy to maintain.



• We reserve the right to change the mechanical specifications and designs without prior notice.

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First for value

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