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MBR & Submerged UF Membrane Integrity Testing and Repair

After the assembly of the membrane device is completed, gas tightness testing should be carried out to check whether the installation of the membrane module is tight and whether the membrane module assembly is complete. The testing process is shown in Table 1.

Table 1 : Integrity Testing Process

S/N	Figure	Notes
1		<p>Testing standards:</p> <p>After the membrane module is installed, connect the water collection pipe interface to the air source. Feed in compressed air and pressurize slowly. The membrane module is pressurized to 0.05Mpa, and the pressure is maintained for 60secs. If the air pressure drops no more than 0.01Mpa, it is qualified.</p>
2		<p>Membrane leak detection method:</p> <p>If the air pressure drops by more than 0.01Mpa, use a spray bottle to spray a small amount of detergent/water solution on the adhesive joints of the pipe fittings and the water outlet of the membrane module. If there are continuous bubbles emerging, it indicates a leak, which must be repaired or dealt with separately.</p>
3		<p>Membrane repair:</p> <p>If a leak is found, wipe it clean with a damp cloth. After it dries, apply the prepared epoxy resin glue evenly three times and let it cure for 2 hours. Prepare the epoxy resin according to the instructions on the package.</p>

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