

LG QuantumFlux™ Pressurized UF Membrane


Technical Service Bulletin 601


Receipt of Modules, Short-Term Storage, and Disposal of Used Elements

Receiving Inspection

After a shipment arrives, conduct a visual inspection of all packages to confirm that:

1. Shipment arrived without damage to the packaging or its contents.
2. All packages listed on the packing list arrived in good order.

 **CAUTION:** To avoid damage to the membrane module, the module should not be subjected to impact, drops, and excessive vibration.

 **CAUTION:** Take caution when opening the shipping container. Do not damage the membrane with the tools used to open the box.

 **CAUTION:** Two people are recommended to lift the module at all times.

UF membrane modules are shipped in wooden crates with Styrofoam end protectors. LG Chem strongly recommends inspecting the product for any visible damage or defects immediately upon receipt. If any issues are encountered, please contact an LG Chem Customer Service representative before accepting the delivery to ensure that your rights are protected. In such cases, LG Chem will promptly identify possible causes of the damage and determine whether it occurred during transit.

Please notify your carrier or freight forwarder and a LG Chem Customer Service Representative IMMEDIATELY of any damaged merchandise or product shortages.

Storage

Before use, the module(s) should be stored, in their original packing, in an area between 5-40°C (41-104°F), with good ventilation, no direct sunlight, and no corrosive substances.

Allowing the module to freeze by reaching temperatures below 0°C (32°F), may cause serious damage to the membrane.

After factory performance testing, membranes are preserved in a protective solution. This prevents damage to the membrane, along with bacterial growth. Do not discharge the protective solution until you are ready to install the module.

LG Chem UF modules should NOT be stored in areas exposed to direct sunlight.

LG Chem UF modules should NOT be stored in areas where damage can occur from moving equipment such as forklifts and pallet jacks.

For long-term storage (greater than 60 days), periodically re-inspect the shipping containers to ensure that there is no physical damage or leakage. Any leakage may indicate a loss of integrity of the membrane preservative.

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Disposal of Used Elements

Used LG Chem membrane modules should be disposed of in accordance with all local and federal regulations. Used elements can be disposed of as municipal waste provided that no preservation solution or other hazardous liquids remaining within the module and no deposition of hazardous substances on the membranes at concentrations exceeding regulatory standards.

If the user wants to recycle the elements, the material components by %age weight of an unused element can be found below:

Material	% by Weight ¹⁾
Nitrile Rubber	0
ABS (Acrylonitrile-Butadiene-Styrene)	0.5–30
UPVC	20–65
PVDF	20–40
Epoxy (2Part)	2–6
Polyurethane	2–6
Silica Gel	0
Stainless Steel	4–8
EPDM (ethylene propylene diene monomer) Rubber	0.1– 0.5

¹⁾ Refers to weight of a new UF module

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