

DuPont™ IntegraTec™ MB 55 R

Replacement Modules

(previously dizzer L 0.9 MB 55)

Key Features

Proven Multibore™ PES Fibers:

- Exceptional physical strength and chemical resistance.
- High colloidal particulate, bacteria and virus log removal rate.
- Excellent filtration permeability.
- Optional coagulation can enhance the removal of algae and organics.

Optimized Module Design:

- Open platform design to adapt with customer built skids.
- Large active filtration area.

Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.

This product is designed as a replacement option for alternative UF systems.



Module Specification

General

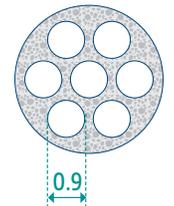
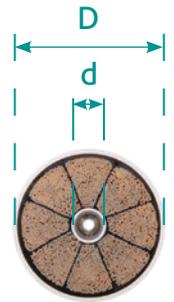
| | | |
|----------------------------|--------------------|--|
| Part Number / GMID | VK-0111 / 12113091 | |
| Mode of Filtration | In-Out Pressurized | |
| Membrane Type | Multibore™ | |
| Membrane Material | PESm | |
| Nominal Membrane Pore Size | 0.02 µm | |
| Module Operating Process | Dead-end | |
| Housing Material | PVC-U, white | |

Dimensions

| | | |
|---------------------------------------|-------------------|---------------------|
| Active Membrane Area | 55 m ² | 592 ft ² |
| Module Length (L) | 1,537.5 ± 1.5 mm | 60.5 inch |
| Module Diameter (D) | 220 ± 1.5 mm | 8.7 inch |
| Filtrate Collector Inner Diameter (d) | 42.60 mm | 1.7 inch |

Weight and Volume

| | | |
|---|-------|----------|
| Shipping Weight (Module Only) | 31 kg | 68 lbs. |
| Weight Empty | 31 kg | 68 lbs. |
| Weight Filled | 71 kg | 156 lbs. |
| Hold-Up Volume Feed (CIP) | 13 L | 3.4 gal |
| Hold-Up Volume Membrane Structure (CIP) | 14 L | 3.7 gal |
| Hold-Up Volume Filtrate (CIP) | 18 L | 4.7 gal |



Certified to
NSF/ANSI/CAN 61

powered by



a DuPont brand

Suggested Operating Conditions

| General | Details | |
|-----------------------------|---------------------------------|----------------|
| Operating Temperature Range | 1 - 40 °C | 34 - 104 °F |
| Operating pH | 3 - 11 | |
| Cleaning pH | 1 - 13 | |
| Typical Filtration TMP | 0.1 - 0.6 bar | 1.5 - 8.7 psi |
| Typical Backwash TMP | 0.3 - 2.0 bar | 4.4 - 29.0 psi |
| Backwash Flux | 230 L/(m ² h) | 135 gfd |
| Backwash Flow | 12.6 m ³ h | 55.5 gpm |
| Operating Limits (Maximum) | | |
| Rate of Temperature Change | 5 °C/min | 9 °F/min |
| Inlet Pressure (20 - 40 °C) | 3 bar | 44 psi |
| Rate of Pressure Change | 0.5 bar/sec | 7.3 psi/sec |
| Filtration TMP | 1.5 bar | 22 psi |
| Backwash TMP | 3.0 bar | 44 psi |
| Filtration Flux | 140 L/(m ² h) | 82 gfd |
| Filtration Flow | 9.9 m ³ h | 43.6 gpm |
| Backwash Flux | 300 L/(m ² h) | 176 gfd |
| Particle Size | 300 µm | |
| Exposure NaOCl | ≤ 250,000 ppm x h (at pH ≥ 9.5) | |
| Concentration NaOCl | 500 ppm | |

General Information

- Avoid any abrupt pressure variations during start-up, operation, shutdown, cleaning or other sequences to prevent possible membrane damage. The maximum pressure change allowable is 0.5 bar/s.
- For assembly please refer to the [DuPont™ IntegraTec™ Pressurized UF In-Out P Series Modules for Open Platforms Assembly Instructions](#) (Form No. 45-D02231-en).
- If operating limits and guidelines given in this bulletin are not strictly followed, any warranty will be null and void.
- To control biological growth during extended system shutdowns, a storage solution must be introduced into the membrane modules. Detailed information is given in the [DuPont™ IntegraTec™ Pressurized UF Out-In Module Preservation Instruction Manual](#) (Form No. 45-D02946-en).

Regulatory Note

- Certified drinking water modules require specific conditioning procedures prior to producing potable water. For operating parameters, please refer to the [DuPont™ IntegraTec™ Pressurized UF In-Out P Series Process and Design Guidelines](#) (Form No. 45-D02234-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.
- Flushing needs to be done according to the [DuPont™ IntegraTec™ Pressurized UF Out-In Module Rinsing Procedure](#) (Form No. 45-D02947-en).



Have a question? Contact us at:
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