



dizzer[®]

Ultrafiltration Modules

State-of-the-art UF technology

- reliable blocking of microorganisms and viruses
- efficient backwash and simple operation
- no fiber breaks - guaranteed quality
- easy deaeration and handling
- low operating costs

Ultrafiltration modules dizzer® XL with Multibore® membrane

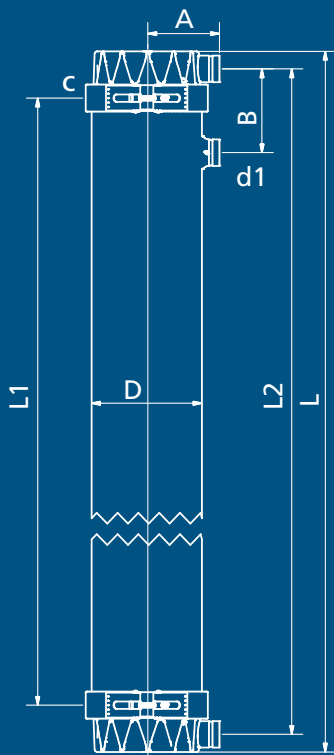


dizzer® modules with Multibore® 0.9

| Module data | | | dizzer® XL 0.9 MB 60 W | | dizzer® XL 0.9 MB 38 W | |
|--|----------------|-------|------------------------|--------|------------------------|--------|
| Membrane area | m ² | sq.ft | 60 | 645 | 38 | 410 |
| Length with end cap (L) | mm | inch | 1680 ± 3 | 66 1/8 | 1180 ± 3 | 46 1/2 |
| Length without end cap (L1) | mm | inch | 1486 ± 1.5 | 58 1/2 | 986 ± 1.5 | 38 3/4 |
| Distance feed connectors (L2) | mm | inch | 1600 ± 3 | 63 | 1100 ± 3 | 43 1/2 |
| Distance feed – module center axis (A) | mm | inch | 165 | 6 1/2 | 165 | 6 1/2 |
| Distance feed – filtrate connector (B) | mm | inch | 190 ± 1.5 | 7 1/2 | 190 ± 1.5 | 7 1/2 |
| Outer diameter end cap coupling max. (C) | mm | inch | 295 | 11 5/8 | 295 | 11 5/8 |
| Outer diameter module (D) | mm | inch | 250 | 9 7/8 | 250 | 9 7/8 |
| Connector flexible victaulic (d1) | | inch | | | 2 | |
| Weight* (wet) | kg | lbs. | 55 | 120 | 40 | 90 |

dizzer® modules with Multibore® 1.5

| Module data | | | dizzer® XL 1.5 MB 40 W | | dizzer® XL 1.5 MB 25 W | |
|--|----------------|-------|------------------------|--------|------------------------|--------|
| Membrane area | m ² | sq.ft | 40 | 430 | 25 | 270 |
| Length with end cap (L) | mm | inch | 1680 ± 3 | 66 1/8 | 1180 ± 3 | 46 1/2 |
| Length without end cap (L1) | mm | inch | 1486 ± 1.5 | 58 1/2 | 986 ± 1.5 | 38 3/4 |
| Distance feed connectors (L2) | mm | inch | 1600 ± 3 | 63 | 1100 ± 3 | 43 1/3 |
| Distance feed – module center axis (A) | mm | inch | 165 | 6 1/2 | 165 | 6 1/2 |
| Distance feed – filtrate connector (B) | mm | inch | 190 ± 1.5 | 7 1/2 | 190 ± 1.5 | 7 1/2 |
| Outer diameter end cap coupling max. (C) | mm | inch | 295 | 11 5/8 | 295 | 11 5/8 |
| Outer diameter module (D) | mm | inch | 250 | 9 7/8 | 250 | 9 7/8 |
| Connector flexible victaulic (d1) | | inch | | | 2 | |
| Weight* (wet) | kg | lbs. | 55 | 120 | 40 | 90 |



Technical information

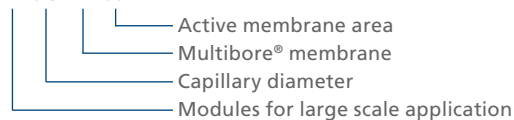
| Material | dizzer® XL | | | |
|----------------------|-------------------|-----|--------|----------|
| Housing | PVC-U, white | | | |
| End cap | PVC-U, grey | | | |
| End cap coupling | SS (sealing EPDM) | | | |
| Operation parameters | | | | |
| Pressure max. | bar | psi | 5 | 70 |
| Temperature range | °C | °F | 0 – 40 | 32 – 104 |

* shipping weight

Modules for large scale applications

Module name example:

dizzer® XL 0.9 MB 60 W



Ultrafiltration modules dizzer® S with Multibore® membrane

dizzer® modules with Multibore® 0.9

| Module data | | | dizzer® S 0.9 MB 6.0 | | dizzer® S 0.9 MB 2.5 | |
|---|----------------|-------|----------------------|--------|----------------------|----------|
| Membrane area | m ² | sq.ft | 6.0 | 65 | 2.5 | 27 |
| Length with end cup (L) | mm | inch | 1172 ± 2 | 46 1/8 | 672 ± 2 | 26 1/2 |
| Length without end cup (L1) | mm | inch | 1000 ± 1.5 | 39 3/8 | 500 ± 1.5 | 19 11/16 |
| Distance feed – module center axis (A) | mm | inch | 99 | 3 7/8 | 98 | 3 7/8 |
| Distance feed – filtrate connector (B) | mm | inch | 162 ± 2 | 6 3/8 | 152 ± 2 | 6 |
| Outer diameter end cap coupling (C) | mm | inch | 135 | 5 5/16 | 135 | 5 5/16 |
| Outer diameter module (D) | mm | inch | 110 | 4 5/16 | 110 | 4 5/16 |
| Internal thread filtrate connector (d1) | | inch | 1 1/2 | | 1 1/4 | |
| Feed connectors internal glue type (d2) | mm | | 32 | | 32 | |
| Weight* (wet) | kg | lbs. | 8 | 18 | 5 | 11 |

dizzer® modules with Multibore® 1.5

| Module data | | | dizzer® S 1.5 MB 4.5 | | dizzer® S 1.5 MB 2.0 | |
|---|----------------|-------|----------------------|--------|----------------------|----------|
| Membrane area | m ² | sq.ft | 4.5 | 50 | 2.0 | 21.5 |
| Length with end cup (L) | mm | inch | 1172 ± 2 | 46 1/8 | 672 ± 2 | 26 1/2 |
| Length without end cup (L1) | mm | inch | 1000 ± 1.5 | 39 3/8 | 500 ± 1.5 | 19 11/16 |
| Distance feed – module center axis (A) | mm | inch | 99 | 3 7/8 | 98 | 3 7/8 |
| Distance feed – filtrate connector (B) | mm | inch | 162 ± 2 | 6 3/8 | 152 ± 2 | 6 |
| Outer diameter end cap coupling (C) | mm | inch | 135 | 5 5/16 | 135 | 5 5/16 |
| Outer diameter module (D) | mm | inch | 110 | 4 5/16 | 110 | 4 5/16 |
| Internal thread filtrate connector (d1) | | inch | 1 1/2 | | 1 1/4 | |
| Feed connectors internal glue type (d2) | mm | | 32 | | 32 | |
| Weight* (wet) | kg | lbs. | 8 | 18 | 5 | 11 |

Technical information

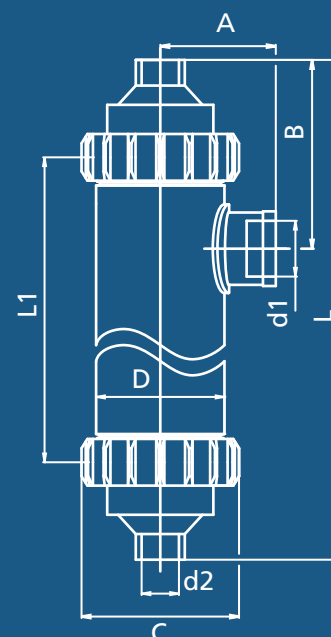
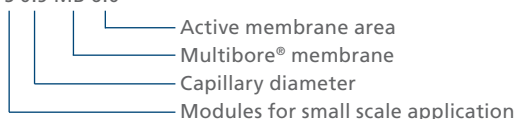
| Material | | | dizzer® S | | |
|----------------------|-----|-----|-------------|--|----------|
| Housing | | | PVC-U, grey | | |
| End cap | | | PVC-U, grey | | |
| Operation parameters | | | | | |
| Pressure max. | bar | psi | 5 | | 70 |
| Temperature range | °C | °F | 0 – 40 | | 32 – 104 |

* shipping weight

Modules for small scale applications (Point-of-Use, Point-of-Entry)

Module name example:

dizzer® S 0.9 MB 6.0



Innovative Ultrafiltration with Multibore® membranes

Multibore® membrane 0.9

| Membrane data | | |
|-----------------------|----|--------------|
| Capillaries per fibre | | 7 |
| Inside diameter | mm | 0.9 |
| Outside diameter | mm | 4.0 |
| Pore size | µm | approx. 0.02 |
| Material | | PESM |

Multibore® membrane 1.5

| Membrane data | | |
|-----------------------|----|--------------|
| Capillaries per fibre | | 7 |
| Inside diameter | mm | 1.5 |
| Outside diameter | mm | 6.0 |
| Pore size | µm | approx. 0.02 |
| Material | | PESM |

Technical information

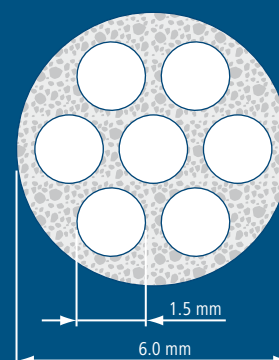
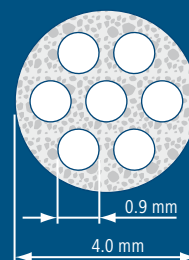
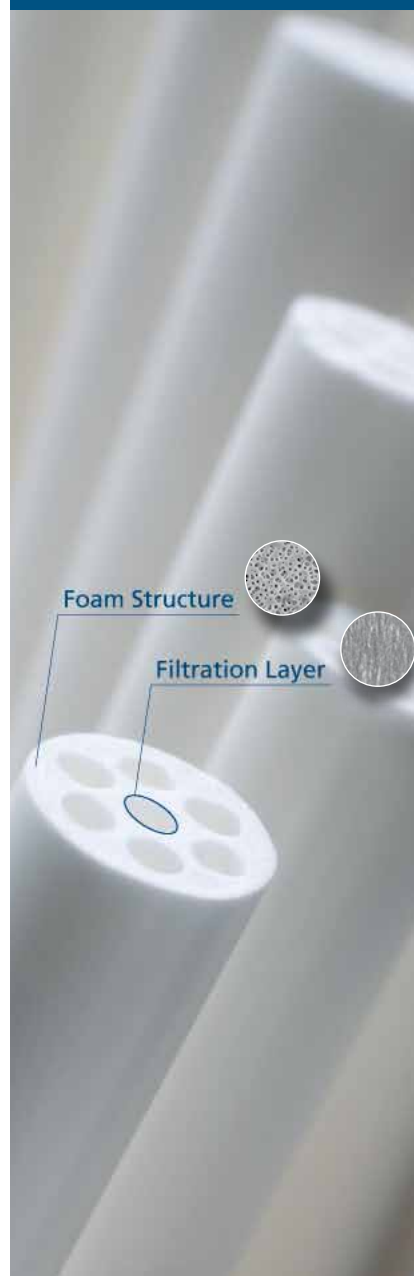
| Cleaning/disinfection chemicals | Multibore® membrane 0.9 and 1.5 | | | |
|--|---------------------------------|-----|--------------|-----------|
| Free chlorine | ppm | | max. 200 | |
| | ppm x h | | max. 200,000 | |
| H ₂ O ₂ (Hydrogenperoxide) | ppm | | max. 500 | |
| Caustic Soda pH | | | max. 13 | |
| Acid pH | | | min. 1 | |
| Flux rate | | | | |
| Filtration * | lmh | gfd | 60 – 180 | 35 – 105 |
| Backwash standard range | lmh | gfd | 230 – 300 | 135 – 175 |
| Transmembrane Pressure (TMP) | | | | |
| Filtration * | bar | psi | 0.1 – 1.5 | 1.5 – 20 |
| Backwash standard * | bar | psi | 0.3 – 3.0 | 5 – 40 |
| Burst pressure | bar | psi | > 10 | > 150 |

* Specifications apply to common operating conditions.

Subject to technical modifications and errors. Modules are to be operated in accordance with the "Installation, Operation and Maintenance Guidelines inge UF-Modules". Further specially customised configurations are available on request. Please contact the inge watertechnologies AG team if you require any further information.



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MADE IN GERMANY