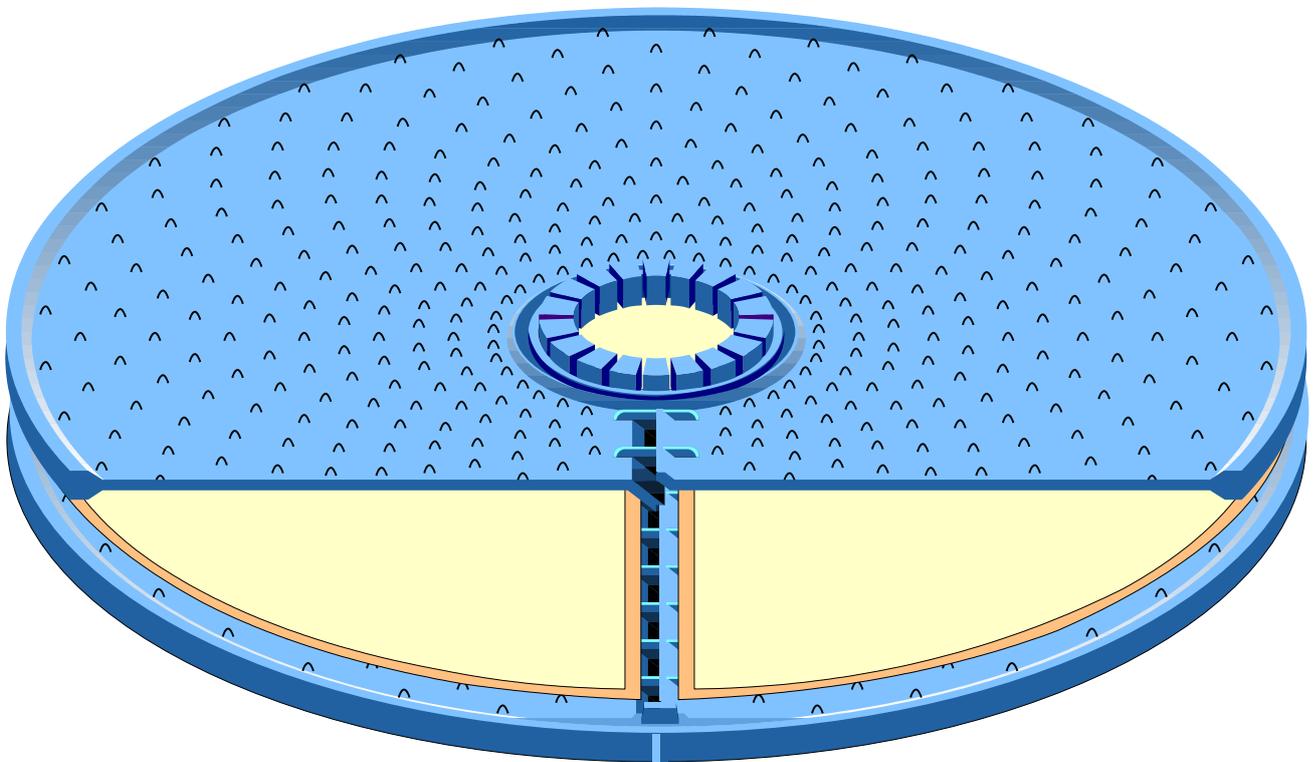


CD 9 –Module

Circular Disc Membrane Module



<u>LOW PRESSURE VERSION</u>	<u>PN 25</u>
<u>HIGH PRESSURE VERSION</u>	<u>PN 80</u>
<u>SUPER HIGH PRESSURE VERSION</u>	<u>PN 140</u>



The **CD 9 -module** is a further development of the disk module technology. The patented flow design of the module offers several advantages:

- optimised fluid characteristics and hydraulics
- low pressure loss over the module
- excellent cleaning behaviour
- wide range of application

Membrane Filtration

- Nanofiltration
- Reverse Osmosis

for the Applications

- sea- and brackish water desalination
- process water recycling
- waste water treatment
- water reuse

Technical Specifications of the CD-Module 9 m²

<p>Pressure Ranges :</p> <ul style="list-style-type: none"> • Low pressure stage 25 bar • High pressure stage 70 bar • SUPER High pressure stage 140 bar 	<p>Dimensions:</p> <ul style="list-style-type: none"> Diameter: 10" \cong 254 mm End flanges 280 mm Height 1007 mm Pressure Vessel Height total 1200 mm Membrane Surface 9 m² No.Membrane 120 Cushions
<p>Weigth</p>	<p>80/118 kg unfilled/filled</p>
<p>Connecting Lines:</p> <ul style="list-style-type: none"> raw water: R1/2" concentrate: R1/2" permeate: R1/4" 	<p>Flow Rates:</p> <ul style="list-style-type: none"> nominal 750 - 850 l/h minimal 500 l/h maximum 1000 l/h

Membrane Material:

It is possible to use any standard dry membrane material provided it can be thermally welded.

Connecting Sets (option):

- Two Pressure Connecting Tubes; 800mm length; PN 80
- Permeate Tube; 800 mm length; PN 10 (max. 145 PSI)

Spare Membrane Cushion

The membrane cushions can easily be exchanged, spare membrane cushions are available single or as a complete set.



The support plate supports the membrane cushion and creates an open channel to the membrane cushion. The surface of the support plate consists of flow segments producing a turbulence in the waste water on one side and on the other side providing through their geometrical arrangement for an uniform fluid across the full area of the membrane cushion. O-rings insulate the permeate against the raw water.

The 121 support plates and the 120 membrane cushions are stacked alternately into a packet. The stack is put into the pressure vessel, which is connected to the manifolds for raw water, reject and permeate by hoses.