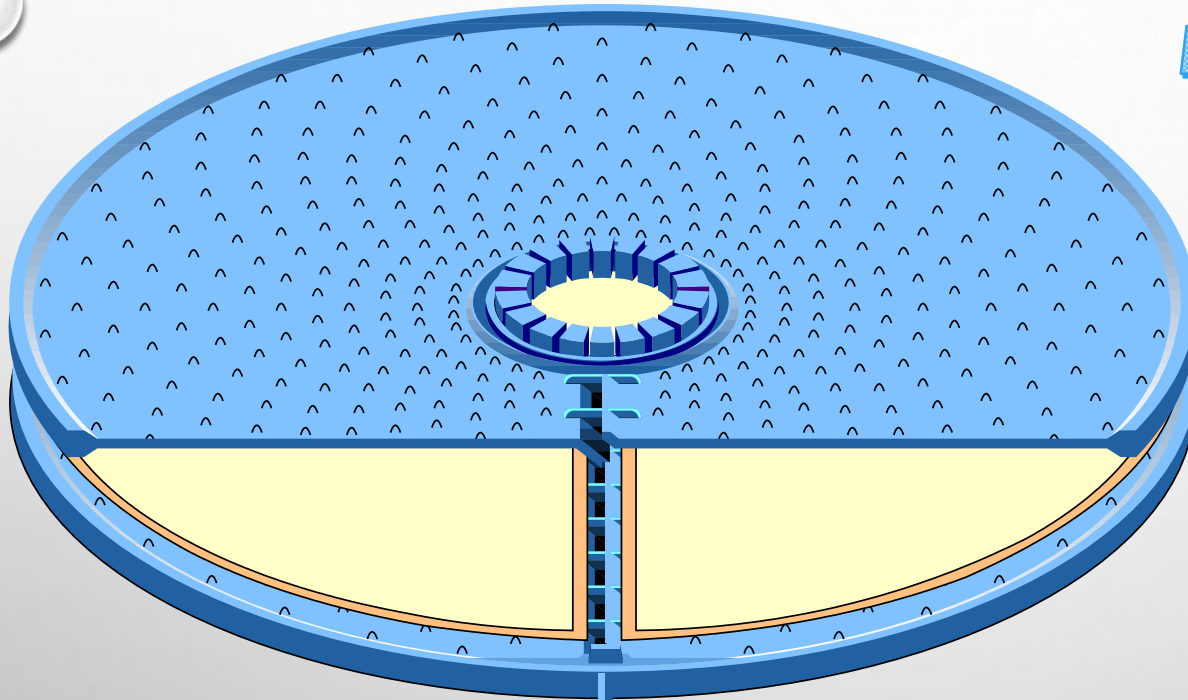


# Circular Disc Membrane Module

CD 9 - Module



# Circular Disc Membrane Module

**CD 9 – module** is a further development of the disk module technology.

The patented flow design of the module offers several advantages:

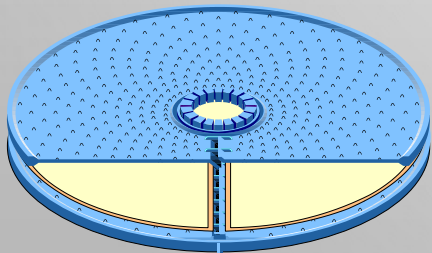
- *optimised fluid characteristics and hydraulics*
- *low pressure loss over the module*
- *excellent cleaning behaviour*
- *wide range of application*

## Membrane Filtration

1. Nanofiltration
2. Reverse Osmosis

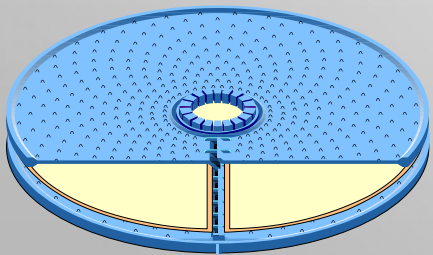
## for the Applications

1. Sea- and brackish water desalination
2. Process water recycling
3. Waste water treatment
4. Water reuse



## Circular Disc Membrane Module

- *LOW PRESSURE VERSION PN 25*
- *HIGH PRESSURE VERSION PN 80*
- *HIGH PRESSURE VERSION PN 140*



# Circular Disc Membrane Module

Technical Specifications of the CD-Module 9 m<sup>2</sup>



Diameter:	10" $\cong$ 254 mm
End flanges:	280 mm
Height	915 mm
Pressure Vessel:	
Height total:	1090 mm
Membrane Surface:	9 m <sup>2</sup>
No.Membrane	120
Cushions:	

# Circular Disc Membrane Module

Technical Specifications of the CD-Module 9 m<sup>2</sup>

Weight:	140/158kg <i>unfilled/filled</i>
Connecting Lines:	Flow Rates:
Rawwater:	R1/2"
Concentrate:	R1/2"
Permeate::	R1/4"
Nominal:	750 - 850 l/h
Minimal:	500 l/h
Maximum:	1000 l/h



# Circular Disc Membrane Module



## Membrane Material:

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



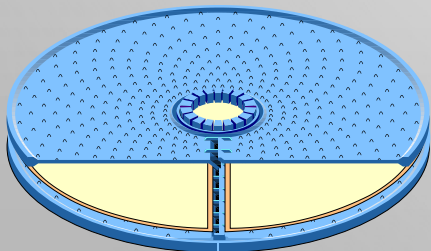
## Connecting Sets (scope of delivery):

- Two Pressure Connecting Tubes; 800mm length; PN 80 / 140
- 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.





## Circular Disc Membrane Module



*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.*