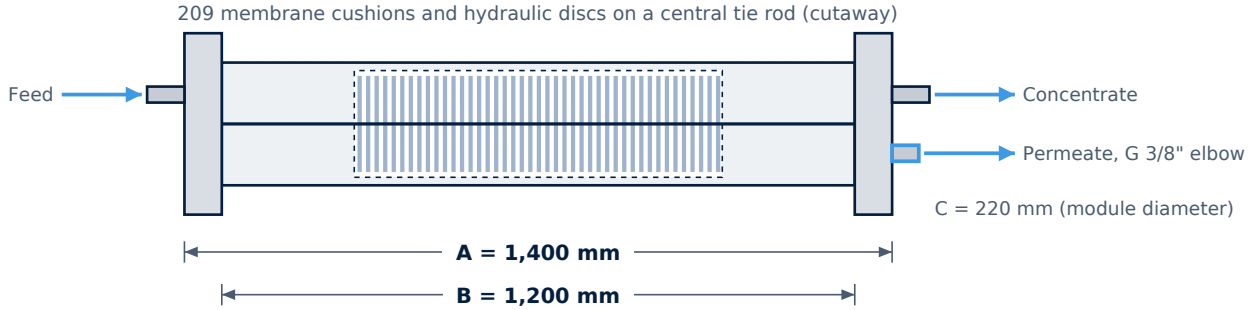
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Discflux DT 90

Disc tube RO module, 90 bar · Datasheet

Disc tube reverse osmosis module, Discflux series, rated for 90 bar. 209 membrane cushions stacked between hydraulic discs on a central tie rod give an open, short flow path with high turbulence, so the module tolerates feeds that would foul a spiral-wound element. For landfill leachate, seawater-strength and high-COD wastewater. Total length 1,400 mm.



Module

Membrane	Polyamide thin-film composite, RO
Membrane cushions	209
Effective membrane area	more than 9.4 m²
Hydraulic discs	ABS
Pressure vessel	FRP
Feed and concentrate connections	12 mm
Permeate connection	G 3/8" 90° elbow for 9 mm hose

Performance and limits *

Operating pressure, maximum	90 bar
Salt rejection, stable	99.5 %
Salt rejection, minimum	99.0 %
Feed flow	500 to 1,200 L/h
Permeate flow at test conditions	400 L/h (± 20 %)
Maximum temperature	40 °C
pH, continuous	3 to 11
pH, cleaning at 40 °C	2 to 12
Free chlorine	< 0.1 ppm
Maximum pressure drop per module	9 bar

Dimensions

A, total module length	1,400 mm
B, vessel	1,200 mm
C, module diameter	220 mm
D, vessel to top of frame	98 mm
E, inlet to flange centre	76 mm
F, outlet to flange centre	56 mm

* General-use limits. A project design may set more conservative values for the best performance and the longest service life.

Test conditions
32,000 mg/L NaCl · 55 bar · 25 °C

Discflux range

Model	Maximum pressure	Stable rejection	Permeate at test	Test solution
Discflux DT 75	75 bar	98.5 %	8 to 40 L/h	2,000 mg/L NaCl, 15.5 bar
Discflux DT 90	**90 bar**	**99.5 %**	**400 L/h**	**32,000 mg/L NaCl, 55 bar**
Discflux DT 120	120 bar	99.5 %	400 L/h	32,000 mg/L NaCl, 55 bar
Discflux DT 160	160 bar	99.6 %	320 L/h	32,000 mg/L NaCl, 55 bar

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Discflux DT 90

Fits the same frames as

Disc tube RO	1,400 mm disc tube modules with 12 mm feed and concentrate connections and a G 3/8" permeate elbow

Brand and model names belong to their owners and are used only to identify comparable equipment. Check dimensions, connections and operating conditions against the installed equipment before replacing it.

Operating guidelines

- Start up gradually: raise feed pressure and cross-flow over 30 to 60 seconds, and avoid pressure shocks during start-up, shutdown and cleaning.
- Never let permeate pressure exceed feed pressure. Avoid static back-pressure on the permeate side.
- Clean when permeate flow falls by 10 to 15 % or pressure drop rises by 15 %, using cleaners compatible with the stated pH and temperature limits.
- Complete pretreatment, piping flush and instrument checks before the first start-up.

General notes

- Each module is supplied assembled and pressure-tested, with membranes preserved, end-capped and crated.
- Permeate flow varies with feed composition, temperature and recovery; values above are at the stated test conditions.
- Theway standard limited warranty applies. Operation outside the stated limits voids the warranty; the user is responsible for the effects of incompatible chemicals.

Theway Membranes believes the information here to be accurate and offers it in good faith. Conditions of use are outside our control, and the user is responsible for checking that the product suits the application. This datasheet is not a contract specification; the order acknowledgement and drawings issued with it govern.

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Important information

Discflux DT-90 disc tube RO module datasheet. Read with every page of this document.

DOCUMENT	VERSION	RELEASED	PAGES	ISSUED BY
TWM-DS-DISCFLUX-DT-90	**1.0**	**November 2026**	**3**	**Theway Membranes**

Legal notice

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