

TOYOBO

TOYOBO MC Corporation

HOLLOSEP MINI™

Brine Concentration Testing Unit

Brine Concentration (BC) is an innovative way to concentrate saline solution. The HOLLOSEP MINI™ BC laboratory testing unit can turn 7 wt% NaCl solution into 20 wt%*.

*Using 4 HOLLOSEP MINI™ BC modules.

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Brine Concentration Testing Unit



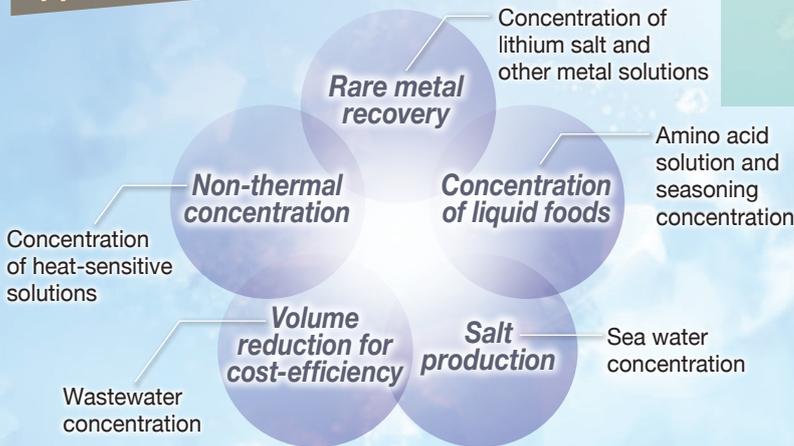
HOLLOSEP MINI™ Brine Concentration Testing Unit

The testing unit employs an innovative membrane-based concentration technology called the “Brine Concentration (BC) method”. The applicability of the BC method can be evaluated in terms of economy, efficiency and process improvement on a small scale.

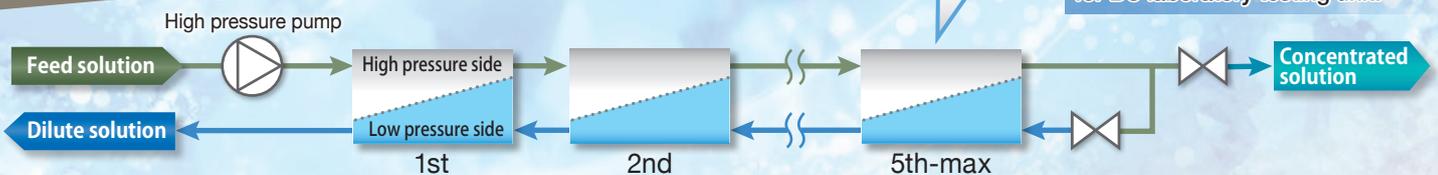
Features

- ▶ Concentrated sample preparation by the BC method and confirmation of its concentration level
- ▶ Compact testing unit that fits on a desktop
- ▶ Unique module configuration for easy handling
- ▶ Workable only with 100V
- ▶ Concentration testing by RO method also available

Applications

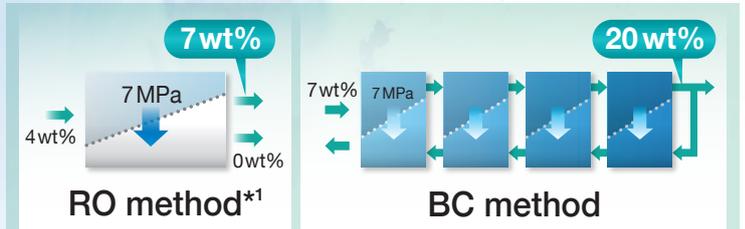


Basic flow diagram



Specifications

HOLLOSEP MINI™ (BC membrane module)	Membrane: Hollow fibers made by cellulose triacetate Membrane area: 1.1 m ² /pc	Standard 4 pcs (maximum 5 pcs)
High pressure pump	40-160 mL / min × 7 MPa, 400 W	Accumulator included
Power supply	Single-phase: 100V, 50 / 60Hz, Rated input power: 0.7kVA	
Size/Weight	Main unit: 850 mm W x 630 mm D x 750 mm H, approx. 60 kg Control panel: 400 mm W x 250 mm D x 300 mm H, approx. 15 kg	Main unit can be separated into the pump and membrane module unit.



Concentrate 7 wt% NaCl solution into 20 wt%*2

What's the BC method?

- Membrane-based concentration that uses the osmotic pressure of the feed solution as assistance
- Innovative technology that can concentrate more than RO without a heat source*3

*1 RO : Reverse Osmosis

*2 Using 4 HOLLOSEP MINI™ BC modules

*3 Details are available here.



HOLLOSEP MINI™



Membrane module assembled with TOYOBO MC Corporation's reverse osmosis hollow fiber membranes and specially prepared for BC laboratory testing unit.

TOYOBO MC Corporation Environmental Solution Apparatus Sales Unit

<https://en.toyobo-mc.jp/>

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