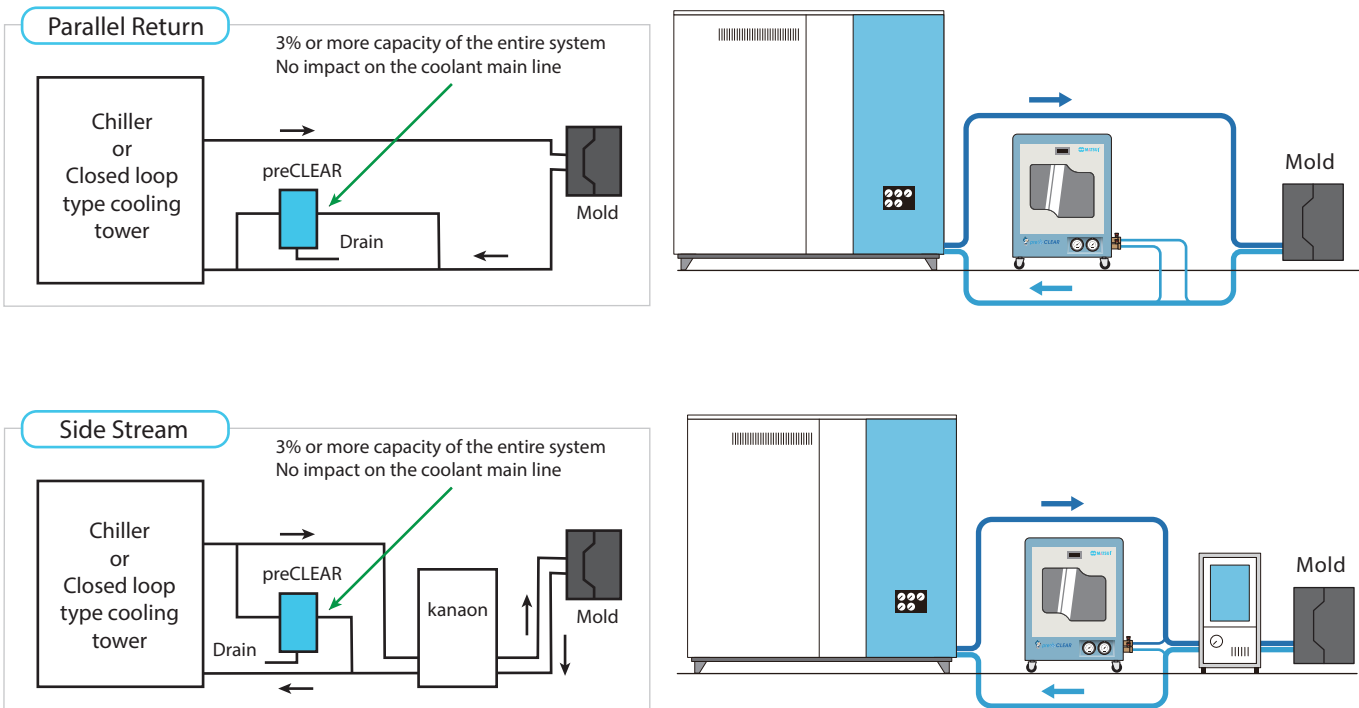


Ion Exchanger Water Softener

Operating temperature range		MAX 45°C
Operating flow rate, pressure		MAX 30 L/min, 0.5 Mpa or less
Filter	Primary	50 μm
	Secondary	25 μm
	Tertiary	Ion exchange cartridge (ion exchange resin 1.8L)
Connection diameter		20 A (with stop valve)
Unit dimensions		825 mm (H) x 805 mm (W) x 315 mm (D)

Examples of Preclear connection

<Connects to lines of recirculating systems (chillers, sealed cooling towers)>



RESOLVE WATER QUALITY ISSUES

A water softener system consisting of a filter to remove suspended substances that cause corrosion to progress, and an ion exchanger with filter to remove scale deposits.



www.matsuiamerica.com
847-290-9680

SUMMARY

"Preclear" Ion Exchanger Water Softener with Filter is used to resolve the problem of Green Algae, Sludge, and Choking of Mold Cooling Holes and helps processors prolong the life and effectiveness of molds as well as chillers, TCU's and other cooling water components.



Utilizing a three-zone filtering process, the Preclear features two micro-filter zones and a proprietary third-stage ionic filter which applies an ion exchange resin. Process water is sent through a 50- μ m filter, and then a 25- μ m filter, before entering the ionic exchange resin filter, which is designed to eliminate water-hardening minerals such as calcium (Ca) and magnesium (Mg).

TARGETS CONTAMINANTS AND WATER-HARDENING MINERALS



The patented Preclear system does not require any electrical power or chemicals and is easily installed between the mold and the chiller.

Compact, the unit measures 32.5 by 32 by 12.5 in (825 by 805 by 315 mm). It has a maximum temperature operating range of 45 C, with a maximum operating flow range of 8 gal/min (30 l/min) and max pressure of 0.5 Mpa or less.

**EASILY INSTALLED
BETWEEN THE MOLD AND
THE CHILLER.**

Preclear helps to decrease cycle time in injection molding, reduce energy consumption in heat exchangers and chillers and generally prolong the lifetime of molds, chillers, TCU's connectors and hoses

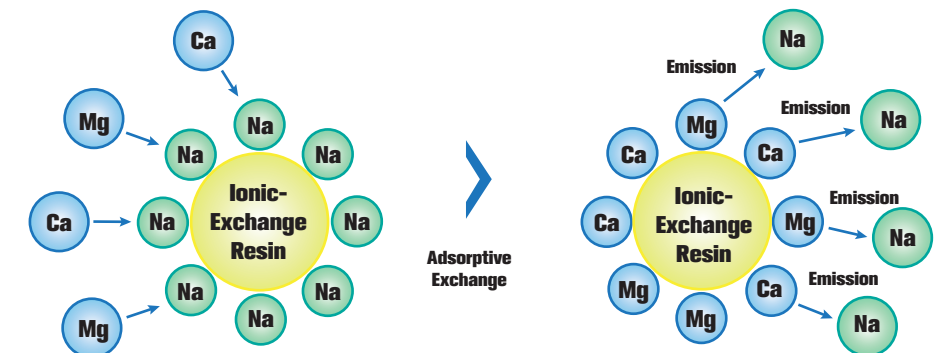


**DOES NOT REQUIRE ANY
ELECTRICAL POWER**

Comparative tests have shown plant water with ppm levels of just 37 ppm in systems utilizing Preclear, compared to 540 ppm four months after cleaning in an ordinary closed loop water system.



Sodium (NA) attaches to the surface of the Ionic-Exchange resin filter. Calcium (Ca) and Magnesium (Mg), the main hardness chemical elements in the water are exchanged and then bonded to the resin filter and removed.



FEATURES

- No power supply needed! No chemicals needed! Easy Installation!
- Operates by simply adding to existing lines.
- Filter removes suspended substances.
- Prevents buildup of scale.
- The filter and ion exchange resin are cartridge types, which makes replacement easy!