SEPARATORS + SEPARATOR SYSTEMS

Griswold Water Systems’ centrifugal separators are designed to optimize settleable solid removal from your water system. Fabricated domestically and built to ASME standards, our stand-alone separators and separator systems, complete with pump, pump control panel, piping pressuring gauge, and basket strainer (standard on High Head Systems), are ideal for a range of applications where 40+ micron sized particles need removal.

Designed for either full-flow or side-stream installations, our separator systems are designed as self-contained units that can be combined with basin sweeping systems. Built around our dual stage High Efficiency Separators, Griswold’s CSS (Auto Purge System) and CSR (Closed Solids Recovery System) models are compact, durable, economical and effective filtration packages.

SEPARATOR BENEFITS

- Reduces solids and fouling problems in cooling water system piping and equipment
- Aids in controlling Legionella by reducing the debris in cooling towers that hide and protect the organisms.
- Increases the effectiveness of all biocides by reducing the amount of organic loading.
- Reduces labor costs associated with manual cleaning of tower basins, chillers, condensers, heat exchangers and boilers
- Improves performance and efficiency of heat transfer equipment
- Reduces energy costs

APPLICATIONS

- Chilled Water A/C Systems
- Industrial Cooling Towers
- Evaporative Condensers
- Irrigation
- Waste Water
- Pre-Filtration

WWW.GRISWOLDWATERSYSTEMS.COM

SYSTEMS + COMPONENTS

CSS AUTO PURGE SYSTEM

CSR CLOSED SOLIDS RECOVERY SYSTEM

SIDE STREAM FILTRATION

Self-contained and packaged with its own pump, a Griswold Separator System may be installed as a side stream on the main system. An appropriately sized model will eliminate the majority of troublesome solids in the fluid stream. The amount of filtration will be based on the desired turnover rate.

SELF CONTAINED SIDE STREAM BASIN SWEEPER SYSTEM

FRONT AREA BY DISCHARGE

BASIN SWEEPER EDUCTOR
**PURGING CHOICES**

**CSS - Auto Purge Systems**
- Timer Controlled
- Motorized Ball Valve (MBV)
- Motorized Ball Valve with Spring (MBVSR)
- Motorized Ball Valve with Failsafe (MBVFS)

**CSR - Closed Solids Recovery System**
- Recovery Tank
- Pressure Gauges
- Annunciator Package

**Manual Purge System**
- Manual Valve

---

**INNOVATIONS [HOW IT WORKS]**

The solids-laden stream of liquid enters the separator tangentially through the inlet which immediately creates a strong centrifugal force on the solids content. Fluid is forced around the circumference of the body to accelerate heavier particles.

Open the manual relief valve (1) after system installation to bleed off trapped air. Periodic bleeding of air should be done as part of a routine maintenance program.

The spin plate (2) deflects solids that may enter the vortex region and shortens the travel of vortex.

Solids pass the gap between the bottom spin plate and the inner wall of the separator (3), and are deposited in the collection chamber.

Bottom spin arrestors (4) help prevent solids from reentering the vortex. The collected solids settle to the bottom of the separator in an elliptical head (5).

**TECHNICAL DETAILS AVAILABLE ON REQUEST**