

Model 1306 – Water Filtration System

Rev. 041614



Tekran equipment is manufactured under US and foreign patents and patents pending

The **Tekran[®] Model 1306 Water Filtration System** is an inexpensive, convenient source of deionized, mercury free water for the **Series 3300 Mercury CEM**. The system has two stages of pre-filtration to eliminate all particulate and organic contamination in the water. A reverse osmosis (R/O) unit then removes the bulk of ionic material. Two stages of finishing ion exchange (IX) resin filters then remove any remaining ionic compounds, including mercury. The R/O unit ensures that the final IX filters have extremely long life.

The **Model 1306** can supply enough water for up to **four** CEM systems. The long-life filter elements are simple to change, inexpensive, and last in excess of one year in normal operating environments. (*Lifetime may vary with local water conditions.*)

Product Highlights

- Two stage particulate & carbon prefiltering
- Two stage ion exchange resin final filters
- Water purity monitor verifies proper operation
- Simple, rapid changing of filter elements
- Reverse osmosis (RO) membrane
- Holding tank has two day supply of purified water
- Optional booster pump for low water supply pressures
- Long life, inexpensive replacement filter elements

Applications of Series 3300 CEM

- Coal fired power plants
- Waste incinerators
- Other industrial sources
- Speciation studies
- Bench scale testing
- Mercury removal process monitoring

Specifications

Inlet Water

Min inlet pressure	40	PSI
Max inlet pressure	80	PSI
Inlet water quality	Municipal grade potable water	

Physical

Mounting Board Dimensions	21"W x 24" H (wall mount)
Water Inlet fitting	1/4" OD tube fitting
Water Outlet fitting	1/8" OD tube (Teflon)
R/O Drain water connection	1/4" OD tubing
Tank overflow water connection	1/4" OD tubing
Holding tank size	6.5 liters

Power Requirement

Unit without pressure booster pump	0.2 A, 115 VAC
Unit with pressure booster pump	1.1 A, 115 VAC (max)

Miscellaneous

Drain Requirement	0.26 L/min maximum (when active)
Time to produce 3 L purified water	45 minutes (warm water) 90 minutes (cold water)

Product Features

