Water Reduction and Waste Treatment System

This filtration system is designed to filter particles down to 0.1 micron and recycle wastewater generated from wafer grinders or other particulate generating tools. The skid-mounted system offers a small footprint and is based on a “Plug and Play” design, saving time and providing ease of installation. The skid is shipped complete with dirty and clean side recycle tank, pumps, filters and a 2.0hp air cooled chiller unit. The system is pressure tested prior to shipment.

Complete skid with the following standard components:

- Two compartment PP - 20” x 20” x 24” inch tank (size may vary per design)
- FSI X100X3 cartridge filter housings (total quantity 5)
- Dirty and clean side tank drains
- Tank water fill line with mechanical tank float valve
- Tank isolation valves for easy cleaning and repairs
- Pressure gauges in and out of filter housings and mix beds
- Isolation valves as needed
- Supply water flow meter (rotameter)
- Drain valves for each filter housing
- All piping CPVC SCH 80

Optional Items:

- Skid spill containment
- Leak detection to shut off pumps

SYSTEM FEATURES

- Can support up to two wafer grinder units
- 5-Stage filtration
- Filtration from 0.1 micron
- Water temperature control
- 2.0hp (24,000 btu/hr) air cooled chiller unit
- Power: 3 phase 220 volts
- Space requirements: 36 inch(W) x 48 inch(L) x 72 inch(H)
- 2 Grundfos horizontal industrial application pumps
- Back pressure regulator to maintain minimum 40 psi supply pressure to grinder