



DESCRIPTION:

The ILR400 is an ideal solution for the problem of electrostatic discharge caused by the use of DI water. The system is equipped with a special membrane that mixes the CO₂ gas into the water flow, thus controlling the DI water resistivity. The design of the ILR400 In-line D.I. Water Reionizer System is based on the latest technological developments in its field. It features straight forward and user friendly controls that allow versatility in application of the pure water process.

FEATURES:

- Up to 4.0 Gal./Min. Reionized D.I.-Water
- Operating ranges of 0.02 MegOhms to 1.2 MegOhms.
- Digital Resistivity Meter that monitors the output of the D.I.-Water resistivity.
- Closed loop feedback system with proportional valve and PID Controller to insure consistent reionization at a set point for a variable D.I.-H₂O flow rate.
- No CO₂ bubbles in the D.I.-H₂O Line.
- No D.I.-Water reservoir to allow bacteria growth.
- Check valve to isolate the CO₂ from the D.I. Water source.
- N₂ purge and D.I.-Water trickle to eliminate bacteria growth during periods of shutdown.

APPLICATIONS:

- High Pressure DI water for cleaning Photomasks and Wafers Infrared Heat Lamp for Complete Drying
- High Pressure DI water for cleaning Flat Panel Glass Substrates
- High Pressure DI water for cleaning Wafers during Dicing operations
- Low Pressure DI water for cooling the Dicing blades
- Low Pressure DI water for rinsing Wafers in Rinser dryers



FACILITIES REQUIREMENTS:

Water (typically Deionized):

Required: 60 to 70 PSI, at 6 GPM
Required: 25° C maximum temperature
Fittings: 1/2" MPT x 5/8" compression

Power:

Required: 208-250VA, 10 Amps, 50/60 Hz, single phase
Fittings: Plug, 15amp, 220 Volt, NEMA L6-15P

N₂:

Required: 60 PSI filtered & 1 CFM minimum
Fittings: 1/4" tube Compression fitting bulkhead (provided)

CO₂:

Required: 60 PSI 0.10 CFM, Grade 4 - 99.99%
Fittings: 1/4 Compression bulkhead (provided)

Drains:

Bubble Trap (degasser):

Required: 0.5 GPM Intermittent
Fittings: 1/4 Compression (provided)

Water/CO₂ Interface (water trap):

Required: 0.5 GPM
Fittings: 1/4" Compression (provided)

Bypass:

Required: 0.5 GPM max.
Fittings: 1/4 Compression (provided)

Exhaust:

Required: Greater than 1CFM
Fittings: 3" Flexible duct & clamp (Provided)

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