

Tiyoda-Serec Corporation

(TSC)

Series 1800

Airless Vacuum Vapor Degreasing Systems



Totally Vacuum Sealed
Co-solvent capability
Small Footprint
Cost effective
Built in Distillation
100% Solvent Containment
2.5cubic foot chamber size
SCAQMD permissible

The system incorporates a patented vacuum cleaning process where the cleaning solvent is transferred to the parts in a process chamber rather than the parts being loaded into a solvent bath. Our models produce parts which are clean and dry, produce nearly zero emissions, and require practically no solvent make up.

Emissions

The cleaning process exceeds all EPA & OSHA regulations, and has achieved the "Maximum Achievable Control Technology" standard which resulted in the TSC process to be SCAQMD permitted in California, the most stringent environmental laws in the United States.

Solvents

Trichloroethylene (TCE)
Perchloroethylene (PCE)
Normal PropylBromide (nPB)
AK225
HFE Blends
Vertrel Blends
Azeotropic mixtures
HydroCarbons
IPA
Other

Processing

Soak/Immersion
Spray
Vapor Degrease
Ultrasonic
Rotation

Application

Machined parts
Tubing Fabricator
Optics
Electronics
Medical components
Automotive
Ball Bearings
Electrical components
Metal finishing
Semi-Conductor

PLC Based controls

The Series 1800 systems incorporates an easy to use Allen Bradley or Omron PLC-based module that controls and monitors all system parameters.

Service and Support

TSC prides itself on offering technical support second to none. Our service and installation personnel provide this high standard of service to all customers.

TSC Patents

5,702,635
5,630,434
5,538,025
5,469,876
5,240,507
5,193,560
5,051,135

TSC Series 1800 Technical Specifications

Process Chamber

2.5 cubic foot
 -18" diameter or square x 18" depth
 or other chamber designs
 Stainless or carbon steel

Standard Features

Soak/Immersion
 Spray
 Vapor degrease
 Distillation

Optional Features

Ultrasonic
 Steam unit/generator
 Chiller
 Rotator
 Carbon Adsorption

Process Cycle

Typically 15 - 18 minutes
 75 lbs / cycle

Utilities

Electric: 460v, 3 ph, 30 amp
 or 230v, 3 ph, 60 amp
 Cooling water: 45°F - 60°F
 Steam: 80K BTU/hr @ 15psi
 Air: 85 psi, 20scfm

Emissions per 1000 cycles

TCE - 2.524 lbs
 PCE - 2.531 lbs
 nPB - 103.2 lbs
 Other solvents fall within
 above ranges

TSC Series 1800 Models

	<u>TSC1800</u>	<u>TSC1800D</u>
Chamber size	18" dia or square x 18" depth	18" dia or square x 18" depth
Chamber construction	Stainless Steel	Stainless Steel
Footprint	6'L x 6'W x 6'H	6'L x 7'W x 6'H
Chamber Load Height	45"	45"
Enhanced distillation pkg.	no	yes
Distill Rate	20 gph	20 gph

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