

Tiyoda-Serec Corporation (TSC)

ACS Series

Airless Vacuum Vapor Degreasing Systems (Mini Clean Room Package)

Totally Vacuum Sealed
Co-solvent capability
Small Footprint
Cost effective
Built in Distillation
100% Solvent Containment
1.0 cubic 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
Isoparifins
IPA
Others

Processing

Soak/Immersion
Spray
Vapor Degrease
Ultrasonics
Rotation

Application

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

PLC Based controls

The ACS Series systems incorporates an easy to use Allen Bradley 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

* Models and Specifications on reverse side

Process Chamber

1.0 cubic foot
-12" dia or square x 12" depth
or other chamber designs
Stainless or carbon steel

Process Cycle

Starting 10 minutes
25 lbs / cycle

Standard Features

Soak/Immersion
Spray
Vapor degrease
Distillation

Utilities

Electric: 230v, 3 ph, 75A
Air: 80 psi, 35scfm

Optional Features

Ultrasonics- 300W - 900W @ 40KHZ
Rotator
Carbon Adsorption
Material handling systems
Exterior Panels
(stainless steel or painted)



| | <u>ACS1212CS</u> | <u>ACS1212CSNS</u> | <u>ACS1212SS</u> | <u>ACS1212SSNS</u> |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chamber size | 1 cubic ft | 1 cubic ft | 1 cubic ft | 1 cubic ft |
| Chamber construction | Carbon Steel | Carbon Steel | Stainless Steel | Stainless Steel |
| Footprint | 72" L x 36" D x 72" H | 72" L x 36" D x 72" H | 72" L x 36" D x 72" H | 72" L x 36" D x 72" H |
| Chamber Load Height | ≈ 36" | ≈ 36" | ≈ 36" | ≈ 36" |
| Cycle time | 10 - 13 minutes | 15 - 20 minutes | 10 - 13 minutes | 15 - 20 minutes |
| Distill Rate | ≈ 10 gph | ≈ 5 gph | ≈ 10 gph | ≈ 5 gph |
| Distill Type | Continuous | Intermittent | Continuous | Intermittent |

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