



## LS Series Solvent Recovery



*Profitability is measured in many ways. Looking toward the future of your business is as important as having an environment in which to do business.*

*Finish Thompson saw this forty years ago when we first produced our solvent handling equipment, and now as the industry leader, we offer you the LS Series to insure your profitability.*

*The environmental benefits of solvent distillation are as obvious as the thousands of units we have placed in companies worldwide.*

In addition, liabilities for transportation and disposal of hazardous waste are substantially reduced. In recent years the Resource Conservation Recovery Act (RCRA) has given "cradle to grave" responsibility to generators of hazardous waste for its storage, transportation and disposal.

### Capacities

The LS Series is comprised of four basic models designed to process 3-5, 15, 55 or 110 gallons of contaminated solvent per shift. The standard units are capable of handling solvents with boiling points ranging from 100° to 320° F. Use our standard LS Series plus optional vacuum system for solvents with boiling points from 320° F- 500° F.

### Advantages

LS Series solvent recycling equipment is uniquely designed and can provide many years of safe, simple and efficient daily operation... virtually maintenance free. When properly installed and operated, LS equipment satisfies the most stringent safety standards for in-house solvent recycling.

Compared to outside recycling services, in-house distillation with LS equipment can return a purer product, provide a higher recovery yield and allow you to control your distillation schedule.

### Meeting Your Requirements

Prospective applications are evaluated to ensure that each unit meets specific usage requirements. Daily evaluations are conducted concerning all facets of distillation technology.



## How It Works:

### Boiling Chamber Filled

Solvent is poured or pumped into the Teflon®-coated boiling chamber, which the operator lines with a standard Stilbag. In lieu of Stilbag, an optional Teflon-coated Stilpan may be used.

### Solvent Heated

After the chamber lid is secured, power to the unit is activated. Heat is transferred from the encapsulated heater through the conductive walls of the chamber directly into the solvent.

### Vapors Are Formed

As the solvent boils, vapors form and pass through the vapor tube into a water-cooled shell-and-tube condenser.

### Vapors Condense

Vapors are condensed into a liquid state. This clean, clear, 99+% pure distillate gravity flows into an approved customer provided 15 or 55 gallon drum.

### Cycle Completed

When visual check indicates no further distillate is available, the unit is shut off and allowed to cool.

### Residue Removed

After cooling, residue remaining in the Teflon®-coated boiling chamber is then removed via the Stilbag or optional Teflon®-coated Stilpan.

## Design Features:

### Safety Design

Finish Thompson Inc. solvent recyclers are built to Class I, Division I, Group D (NEMA 7) standards of the National Electrical Code. Explosionproof components are UL listed. All LS units carry CSA approval.

### Fully Insulated

Total distillation tank including lid is insulated with ceramic fiber for heat retention and to provide efficient distillation.

### Vacuum Capability

All LS Series units will accept our unique JetVac attachment allowing recovery of solvents with boiling points up to 500° F.

### Condenser Water Flow Switch/Interlock\*\*

The distillation unit operates ONLY when sufficient volume of cooling water is present. Interruption of water terminates power to heater.

### Dual Thermostat

Two thermostat controls are provided so that the unit temperature does not exceed the recommendation for heater temperature in a Class I, Division I, Group D environment.

### Adjustable Temperature Control†

Allows variable temperature settings.

### Patented Encapsulated Heating Element

The heating element is encapsulated within the vessel's bottom insuring direct heat to 100% of the vessel. No inefficient hot oil immersion heating is needed. The heater on all LS Series units carries a lifetime warranty.

### Residue Removal System

Residue is contained within disposable Stilbag liner for convenient removal and handling. Teflon®-coated Stilpan is optionally available. Distillation chamber is also Teflon®-coated for ease of cleaning. (not available on ST).

### Quick Cool Coil†

Allows fast cooling of distillation tank for multi-shift use.

### Push/Pull Light Indicator

Shows on and off position of the still.

### Solid State Design

Insures reliability and accuracy.

\* DuPont registered trademark

\*\* Not available on LS-JE

†Optional on LS-555TE