



**THE LEADERS  
IN SOLVENT RECLAMATION**



# **CHEM-CHAMP**

## **Solvent Recyclers**

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A Complete Package That Includes:

1. The Best Patented Recycler Technology
2. The Highest in Solvent Quality
3. The Most Reliable unit in the Industry
4. Units ranging in Size from 5 to 5,000 gallons per day



# CHEM-CHAMP

## A Series

## Solvent Recyclers

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- ✓ 110 Volt, 220, or 430 Volt Operation
- ✓ Industry Leading Recovery Efficiencies
- ✓ 5 to 80 Gallon Batch Volumes per day – From 100 to 1600 gallons a month per unit
- ✓ One Button Operation
- ✓ Clean, strong thinner every day
- ✓ ETL Certified for Hazardous and Non-Hazardous Locations
- ✓ Easy to Maintain and Service





# “THE CHEM-CHAMP RECYCLER”

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**Recycles Solvent from either:**

- 1) Accumulated Waste
- 2) Cleaning Station





# “THE CHEM-CHAMP RECYCLER”

**Alternating recycling from your Cleaning Station one day  
and additional waste the next will provide the shop with:**

- 1) No Mass Quantities of Waste Solvents  
On-site
- 2) Clean Solvent for your Cleaning Station
- 3) Additional Clean Solvent





# “THE CHEM CHAMP RECYCLER”

Solvent Users Want to Recycle

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- 1) Reduce Solvent Cost by 90%
- 2) Greatly Reduce Waste
- 3) Reduced Liability
- 4) Save Money





# Solvent Temperature Ranges

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1. The ChemChamp Recycler is designed to distill many different types of solvents
2. The only Recycler that can effectively distill different solvents from the same unit
3. ChemChamp Recycler's are designed to distill solvents with a boiling temperature **less than** 356 degrees Fahrenheit or (180 degrees Celsius).
4. As well the unit **should never be used** to distill any chemical with an auto-ignition temperature below 437 degrees Fahrenheit or (225 degrees Celsius).

\* A Nitrocellulose Package can be added to the A40 and above



# “THE CHEM-CHAMP RECYCLER”

## Actual Customer Results

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### Before

#### ChemChamp

- Shipped 150 gallons of waste per month
- Purchased 55 gallons new solvent per week

### With

#### ChemChamp

- Ships one 16 gallon drum of solid paint waste bottoms every two months
- Purchases NO new solvent





# “THE CHEM CHAMP RECYCLER”

## Actual Customer Results

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### Before

#### ChemChamp

- Shipped 90 gallons of waste per month
- Purchased 110 gallons of new solvent per month

### With

#### ChemChamp

- Ships one 16 gallon drum of solid waste bottoms per month
- Purchases 15 gallons of new solvent per month
- Saves \$500.00 per month



# “CHEM-CHAMP RECYCLERS”

## Some of our Markets

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- 1) OEM Manufactures
- 2) Electronic Manufactures
- 3) Fiberglass and Furniture Mfg.
- 4) Auto Body Repair
- 5) Healthcare
- 6) Many others

# “CHEM-CHAMP RECYCLERS”

## Advantages vs. Conventional Recyclers

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- 1) No Moving Parts or Odors
- 2) Greater Solvent Reclamation
- 4) Higher Solvent Quality
- 5) Easy to Use and Maintain
- 6) Dependable Equipment





# “CHEM-CHAMP RECYCLERS”

## Key Features

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The ChemChamp recyclers distil solvents and paint wastes better than any other recycler. In addition to this, the whole process is one without the use of any moving parts. The following section describes how this patent protected technology works.

1. Patented Direct Condensation Method
2. Patented Control System
3. Patented Vapor Management System
4. Patented Anti-Pressure System
5. Full Function Display





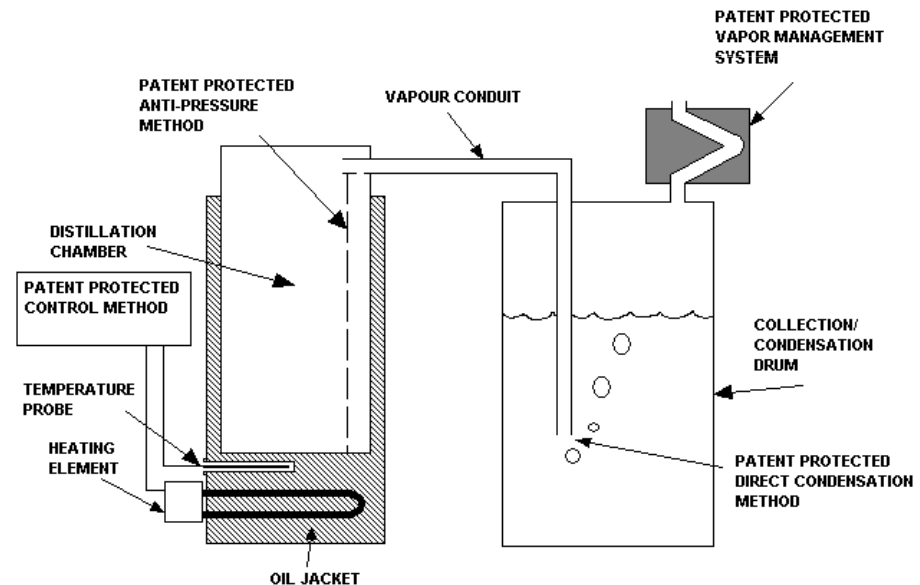
# “CHEM-CHAMP RECYCLERS”

## Patented Direct Condensation

### Direct Condensation Method

The **Direct Condensation Method** is a revolutionary way of effectively condensing vapors into liquid form. By forcing the vapors through the liquid cooling mass, the solvent vapors are able to lose the heat energy required to change state to liquid without having to cross any heat exchange boundaries. This is not the case with traditional condensing methods in which the heat energy must first pass through a tube wall and then to the cooling medium (usually forced air). **The Direct Condensation Method allows vapors to condense into pure liquid easily and effectively.**

### How it Works





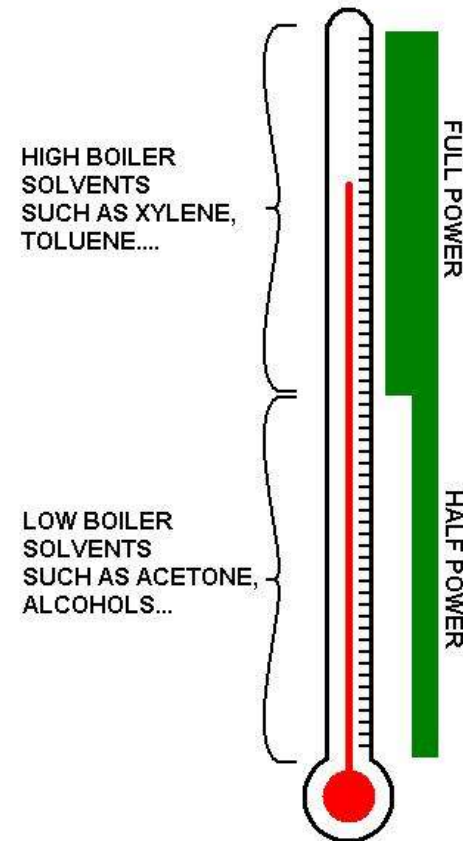
# “CHEM-CHAMP RECYCLERS”

## Distillation Made Simple

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### Control Method

The **Control Method** monitors the cycle inside the distillation chamber using the temperature probes. It is able to adjust the amount of power delivered to the elements in order to obtain the best recovery rates. After the cycle is done the control method automatically turns the elements off and protects the unit from operating again until it has properly cooled down. **The Control Method allows the unit to operate at the push of a button with any variation of solvent wastes with out the need for the user to make any further adjustments such as boiling temp and time.**

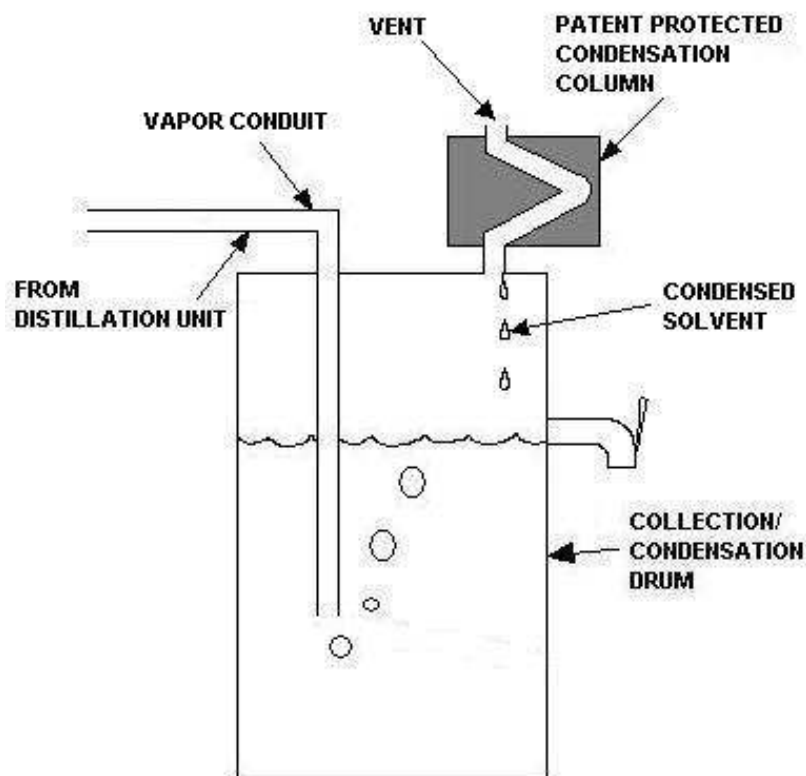




# “CHEM-CHAMP RECYCLERS”

## Vapor Management System

The **Vapor Management System** is the last line of defense in the pursuit of collecting every last drop. The key to the safety of this system is to prevent the possibility of a dangerous pressure build up. The Vapor Management System is a “juiced” vent to disallow the build up of pressure anywhere in the system. As a vent, this is the only possible source of loss to recovery rates of the system. The ChemChamp recyclers use static mass (something that is capable of absorbing heat energy) to condense any vapors that attempt to escape from the system and then allows them to drip back into the collection vessel. **The Vapor Management System allows the system to be fully vented without the threat of excessive loss or odor.**

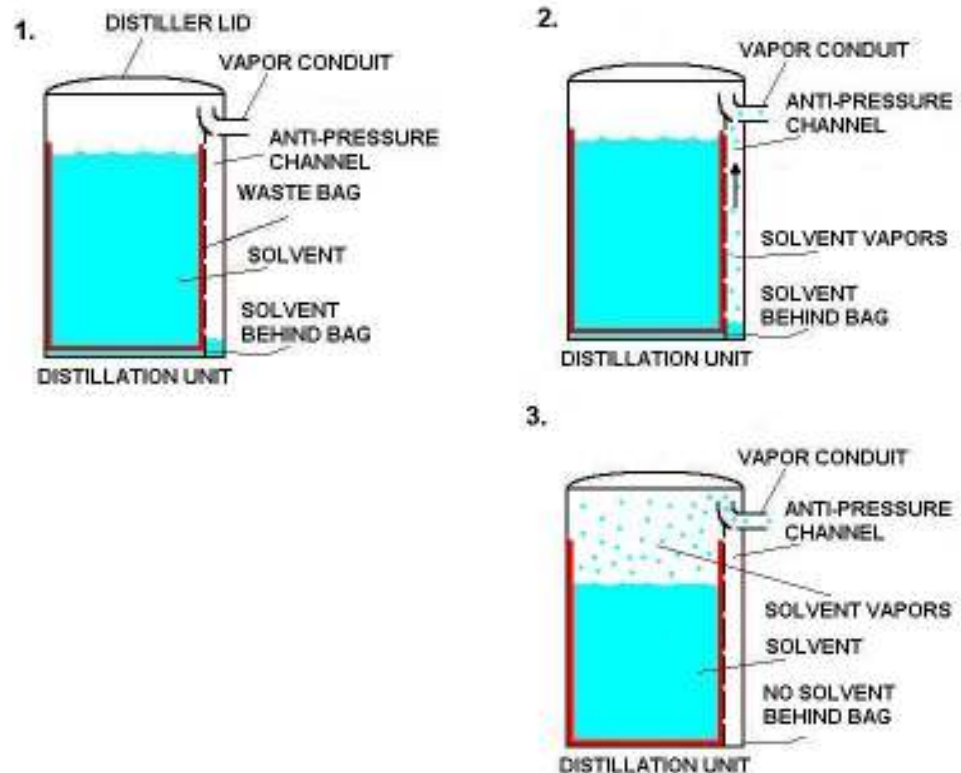




# “CHEMCHAMP RECYCLERS”

## Patented Anti-Pressure System

The **Anti-Pressure System** is a back up safety mechanism inside the distillation chamber. The key to the safety of this system is to prevent the possibility of a dangerous pressure build up. The Anti-Pressure System is a series of vents communicating with the main vapor conduit such that if any one of the primary vapor outlets were to be blocked, a secondary system is able to reroute the vapor to the CC drum without interruption. **The Anti-Pressure System prevents a dangerous scenario in the event that the user does not fill the system properly.**







# “CHEM-CHAMP RECYCLERS”

## Full Function Display

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- ✓ Indicates when the Unit is Heating Up
- ✓ Indicates when the Unit is Cooling Down
- ✓ Informs Operator of Unit Malfunction
- ✓ Indicates when Oil Change is Needed
- ✓ Indicates Temperature





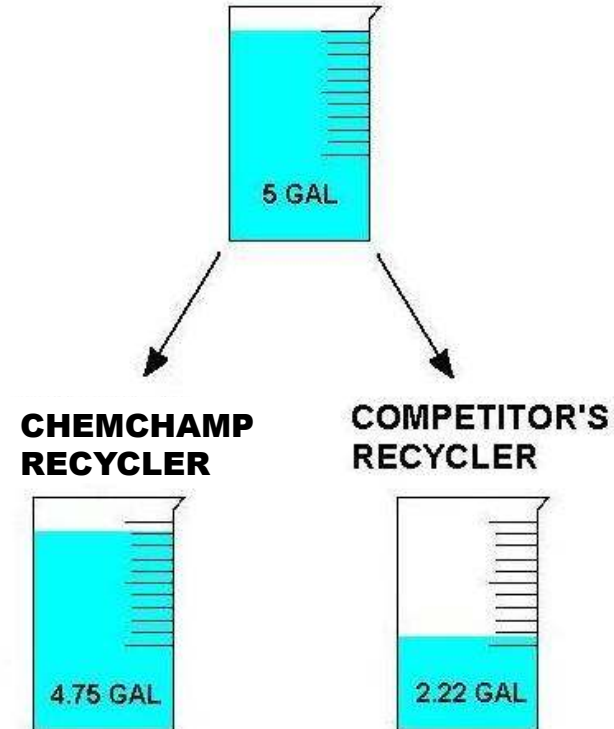
# “CHEM-CHAMP RECYCLERS”

## Recovery Rates

Its not good enough to just offer recycling technologies as a cost cutting measure, it is also important to realize why the patent protected ChemChamp technology makes this program successful.

Before the ChemChamp A-5, recycling technologies were widely available but not widely accepted. The reason for this was that the cost savings were not sufficient to outweigh the time and effort of using weak, reclaimed solvents. A “good” recycler using conventional technologies will capture about 85% of the processed solvents, meaning 15% of the solvent would escape into the work environment. On a 5 gallon machine that’s  $\frac{3}{4}$  of a gallon of solvent!! To add insult to injury, the solvents lost are generally all from one constituent, the one with the lowest boiling point (Acetone).

5 GALLON BATCH OF THE SAME SOLVENT IS RECYCLED 5 TIMES





# “CHEM-CHAMP RECYCLERS”

## Summary

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- ✓ No Moving Parts, Condensers or Coils
- ✓ Patented Direct Condensation Method
- ✓ Patented Vapor Management System
- ✓ Patented Integrated Safety Features
- ✓ Patented Control Method
- ✓ Full Function Display

