



## Disti Kleen, Incorporated

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**DISTI SOLVENT  
RECOVERY SYSTEMS**

## ***DISTI BS & DISTI AV*** **PRICES AND TECHNICAL DATA**

### **APPLICATIONS:**

DISTI BS series solvent recyclers are characterized by their tilting structure and fixed tank. They are particularly economical and safe to satisfy the needs of those users that have to recycle smaller amounts of solvents contaminated with oils, greases, resins, pigments, adhesives, etc.

### **CHARACTERISTICS:**

These recyclers with a large heated surface allow both, a fast and safe distillation of contaminated solvents and the easy discharge of the residues. The sludge contained in our DISTI thermo-proof bags never touches the operator and can be easily disposed of in accordance with local environmental laws. The DISTI solvent recovery systems are operator friendly and very easy to use. Place the DISTI thermo-proof bag inside the distillation boiler, transfer the solvent into the bag lined vessel, set the temperature, and start the recycler. The distilled solvent will be condensed and collected in an external container, so it will be ready to be used again.

### **SAFETY:**

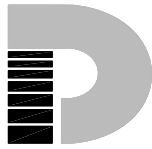
BS series recyclers must pass several rigorous safety tests and, most of all; they have been designed and built by experienced engineers in compliance with the NEC laws.

### **ELECTRICAL VERSION**

All DISTI BS series recyclers are supplied with a stainless steel solvent tank, a heating system, a copper condenser and a frame made of epoxy painted electro welded sheet-iron. The electrical system is an explosion-proof EEXD version for explosion-risk atmospheres. All electrical parts are UL/FM and CSA approved.

### **THE RECYCLERS BS SERIES ARE EQUIPPED WITH:**

- 1) Stainless steel fixed tank.
- 2) Tilting support.
- 3) Electrical explosion proof motor and fan equipped with balanced wings.
- 4) Heating element immersed in heat transfer oil.
- 5) Electro-mechanical device to preset temperature and operating time.
- 6) Safeties for overheating of heat transfer oil, the distillate and the fan motor.
- 7) Copper condenser (stainless steel available upon request).
- 8) **Nr. 03 Thermo-proof bags:** These will resist a temperature up to 200°C/390°F and a wide range of chemical products. The bag prevents the distillation sludge from sticking to the tank sides.
- 9) **Nr. 01 Clip-sac bag retainer:** used to hold the bag inside the tank in order to avoid obstruction of the vapor outlet.
- 10) Heat transfer oil added with antioxidants.



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## DISTI SOLVENT RECOVERY SYSTEMS

### PRICES AND TECHNICAL DATA:

| Technical data                | BS 21           | BS 31          | BS 50            | AV/BS 70        | AV/BS 110       |
|-------------------------------|-----------------|----------------|------------------|-----------------|-----------------|
| Useful evaporation capacity   | 5.5 gal (21 l)  | 8 gal.(21 l)   | 13 gal.(50 l)    | 18 gal. (70 l)  | 30 gal. (115 l) |
| Approx. hourly production     | 1 – 1.5 gal/h   | 2 – 2.5 gal/h  | 3- 3.5 gal/ h    | 4.5 - 5 gal/h   | 7 - 9 gal/ h    |
| Max. operating temperature    | 356 °F          | 356 °F         | 356 °F           | 356 °F          | 356 °F          |
| Heating capacity              | 2 Kw            | 2 Kw           | 6 Kw             | 6 Kw            | 12 Kw           |
| Cooling                       | Air             | Air            | Air              | Air             | Air             |
| Diathermia oil                | 1.95 gal        | 3.56 gal       | 7.9 gal          | 11.00 gal       | 16.3 gal        |
| <b>Price (fob port NY/NY)</b> | <b>\$ 8,800</b> | <b>\$9,400</b> | <b>\$ 12,000</b> | <b>\$17,000</b> | <b>\$22,000</b> |

**BS Series** is supplied with fixed tank, tilting structure, explosion proof electrical version and copper condenser.

**AV Series**, explosion proof and supplied with removable tank, hand crane, and copper condenser.  
The same distiller can be built with fix tank and tilting structure (as BS). The price would be the same.

### Option 1: Pneumatic Vacuum System

|                          |          |
|--------------------------|----------|
| BS 21,<br>BS 31<br>BS 50 | \$ 3,400 |
| AV/BS 70<br>AV/BS 110    | \$ 3,900 |

#### Purpose:

- Lowers the solvent boiling point, making recovery of high boiling point solvents possible
- Allows for safe distillation of temperature sensitive materials such as Nitrocellulose (you need to include the Nitrocellulose Safety package option 2)
- Required for boiling points higher than approx. 140°C (284°F)
- Shortens the final distillation process to obtain a residue with minimum solvent content
- Filling of the distillation vessel is possible without additional pump, but by vacuum pressure



Vacuum System



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### Option 2: Nitrocellulose Safety Package

|  |  |          |
|--|--|----------|
| Available for<br>BS50<br>AV/BS 70<br>AV/BS 110 | <b>Nitrocellulose<br/>Safety<br/>Package</b> | \$ 2,400 |
|--|--|----------|

#### Purpose:

- Temperature sensitive substances that may decompose or trigger an exothermic reaction at boiling temperature under normal distillation pressure can be distilled safely at a lower non-critical temperature by use of vacuum while monitored with the Sludge Temperature Control system (NC Safety Package).
- If the type and amount of temperature sensitive substances contained in the waste solvent, (e.g. solvents containing nitrocellulose, furans) could possibly lead to an exothermic reaction, or to undesired decomposition products, (e.g. PVC pastes) control of the sludge temperature and use of vacuum distillation is highly recommended.

RTD temperature probe located near the bottom of the distillation vessel connected to temperature controller TS24, monitors sludge temperature with two adjustable temperature limits. If the first temperature limit is reached, the heating is shut off and an audible alarm is activated. If the second temperature limit is reached the distillation vessel is automatically flooded with water. Pressure switch to monitor water supply, heating will not operate during periods of inadequate water supply.

**BS Series:** Supplied with fix tank, tilting structure, explosion proof electrical version and copper condenser.



*Tilting system and manually clean out distillation vessel*



*Easy sludge removal using Nylon bag*



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**AV Series** is supplied with removable tank, hand crane, explosion proof electrical version and copper condenser. The same distiller can be built with fix tank and tilting structure (as BS). The price would be the same.



AV system with clean solvent receiving tank



Removable tank, hand crane



BS 31 Ex



AV70 EX

BS 70 EX