



## In-Plant solvent recycling systems

### Omega RS Models



Most industries today generate waste solvents in their processes. It is a known fact that these solvents can generally be recycled to their original state and successfully returned to production for re-use. The secret, however to a successful recycling program is selecting the right equipment. Introducing recycling equipment that is unreliable or places a burden on your production process will ultimately lead to failure.

Omega RS models are simple to operate, deliver reliable performance under the harshest conditions, can be tailored to a wide variety of applications and are easy to maintain. With the Omega RS models you can expect to recycle up to 95% of your polluted solvents. Since all OMEGA solvent recyclers are explosion proof, flammable solvents are no problem.



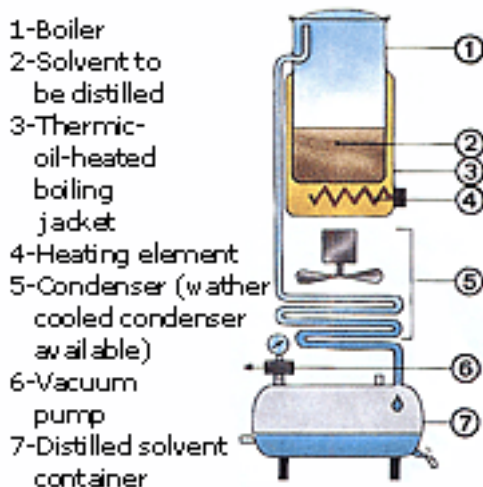
Before      Pure Solvent      Dry Waste

### **Contaminated solvents processed through the Omega RS solvent recycling systems provide your company with numerous immediate advantages:**

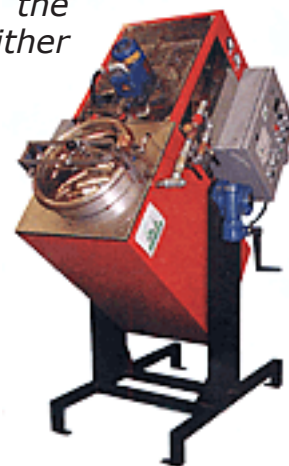
- The separation of the original solvent from the contaminated products, thus drastically reducing the quantity of waste generated.
- The immediate re-use of the distilled solvent in the working process brings an immediate savings in your solvent consumption.

## Operating principle

Omega RS solvent recyclers do not use filters or any type of chemicals to achieve solvent purification. They are stand-alone units that function on the time proven concept of distillation. The product to be recycled is poured into a boiler. The boiler shell (constructed of heavy gauge 304 stainless steel) is itself surrounded by a thermal oil filled heating jacket. The thermal oil is heated by one or more electric resistances, which eventually brings the polluted solvent to its boiling point. Pure solvent vapors are then channeled to an air or water cooled condenser. Condensed pure solvent, in liquid form, is then directed to a collecting container. For certain types of applications and solvents, a vacuum system may be required. All Omega RS models can be fitted with a high efficiency vacuum system.



*Still bottoms, at the end of the distillation process, can be collected by the use of a liner bag or simply drained out. The RS-15 and RS-30 offer a convenient tilting feature that permits the operator to position the distillation chamber horizontally for either draining or clean out.*



## RS-3 & RS-6 Models

Rugged, compact and convenient the RS-3 and RS-6 models have a true usable 3 and 6 gallon capacity respectively. Their operation and design is simple, yet they perform relentlessly yielding consistent results even in the harshest working environments. The units are fully certified UL 2208, and listed to be able to operate in a hazardous as well as non-hazardous working area. The RS-3 & RS6 models are equipped with an oversized air cooled condenser that is so quiet you can barely tell that the unit is on.

For applications where vacuum distillation is required, both the RS-3 and the RS-6 units can be fitted with a vacuum system at the time of purchase or retrofitted in the field at any time.



## RS-15 & RS-30 Models

RS-15 & RS-30 models use the same distillation and construction concepts as the RS-3 & RS-6, however due to size and variety of applications they are required to address, these models offer a variety of added features. PLC controller, tilting capability, pneumatic valves, digital temperature control are but a few of the features offered in these models that make them truly unique solvent recycling systems. Add options such as automatic fill, refrigerated cooling and you have distillation systems that can meet any waste solvent stream challenge head on.

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**Although all Omega RS solvent recyclers come complete and ready for use, certain applications may require one or more of the following options:**



### Available Options

- Automatic Fill (RS-15 & RS-30 Only)
- Automatic Sludge Drain (RS-15 & RS-30 Only)
- High Temperature· Stainless Steel Condenser Coils
- Vacuum Distillation
- Oil Circulation Pump (for higher temperature, RS-15 & RS-30 Only)
- Scraper (RS-15 & RS-30 Only)
- Water cooled condenser
- Refrigerated condenser
- Water quenching

